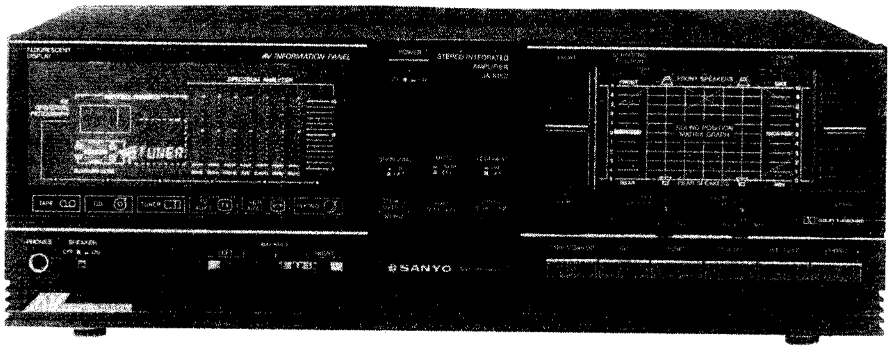
SERVICE MANUAL

SANYO

AV CONTROL CENTER

JA 6150 BLACK
(W. GERMANY)



SPECIFICATIONS

Note:
The below mentioned specifications are mainly based on the IHF measurements standard. They can therefore not directly be compared with specifications based on the DIN standard or other standards.

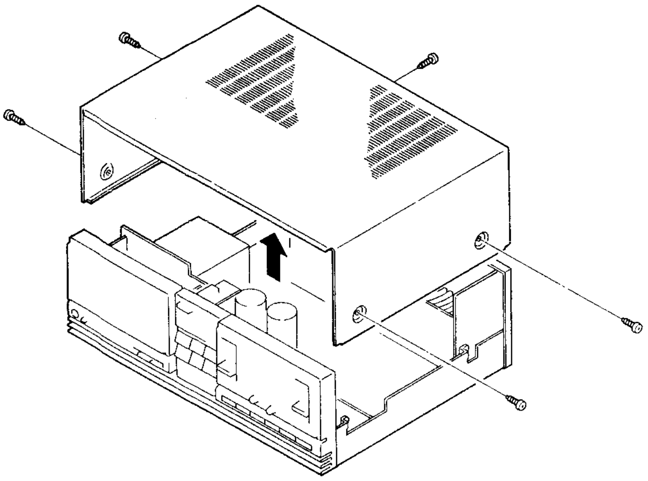
Continuous output power	
FRONT	100 W x 2 (at 8 ohms, 0.9% distortion)
REAR	20 W x 2 (at 8 ohms, 0.9% distortion)
Input sensitivity and impedance	
PHONO	2.5mV/47 kohms
CD/TV/AUX1/VCR/AUX2	150 mV/47 kohms
Frequency response	20 Hz – 35 kHz (CD)
Loudness control response (Vol. –30 dB)	+8 dB/+4 dB (100 Hz/10 kHz)
Signal to noise ratio	95 dB (CD)
Power requirements	AC: 220V, 50 Hz
Power consumption	620 W
Dimensions (W x D x H)	Approx. 420 x 340 x 140 mm (16-1/2" x 13-3/8" x 5-1/2")
Weight	Approx. 9.7 kg (21 lbs.)

Specifications subject to change without notice.

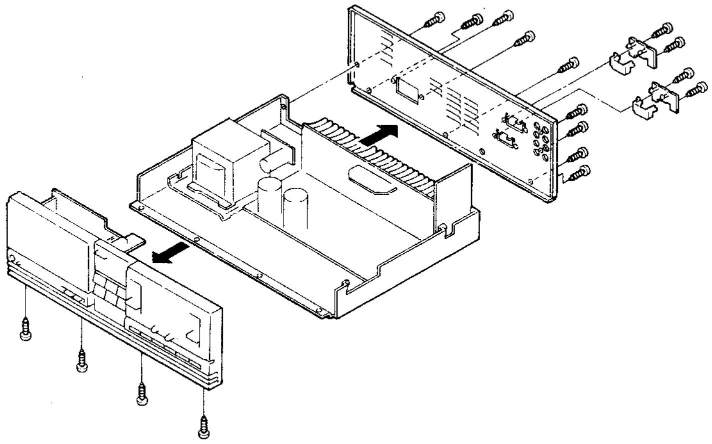
Reference No. WM-19064

DISASSEMBLY

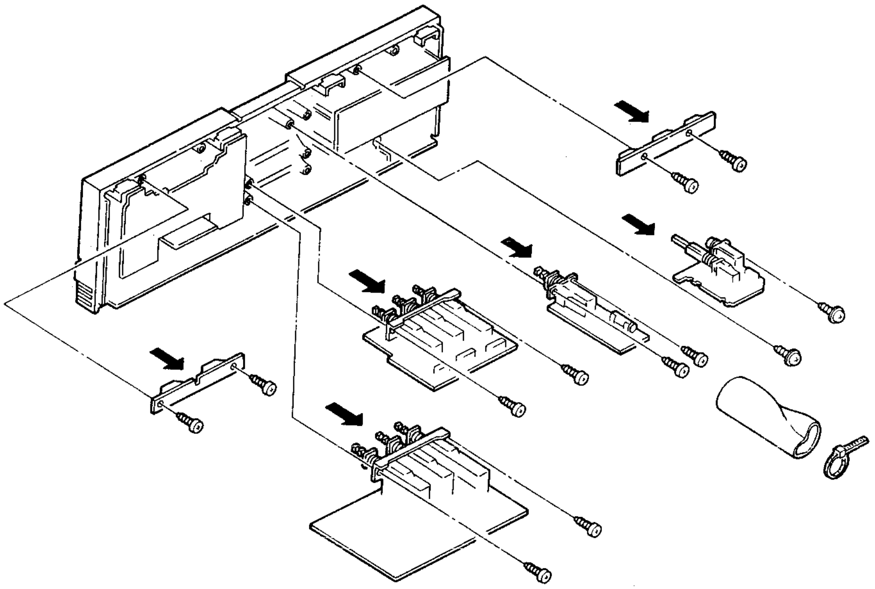
CABINET REMOVAL

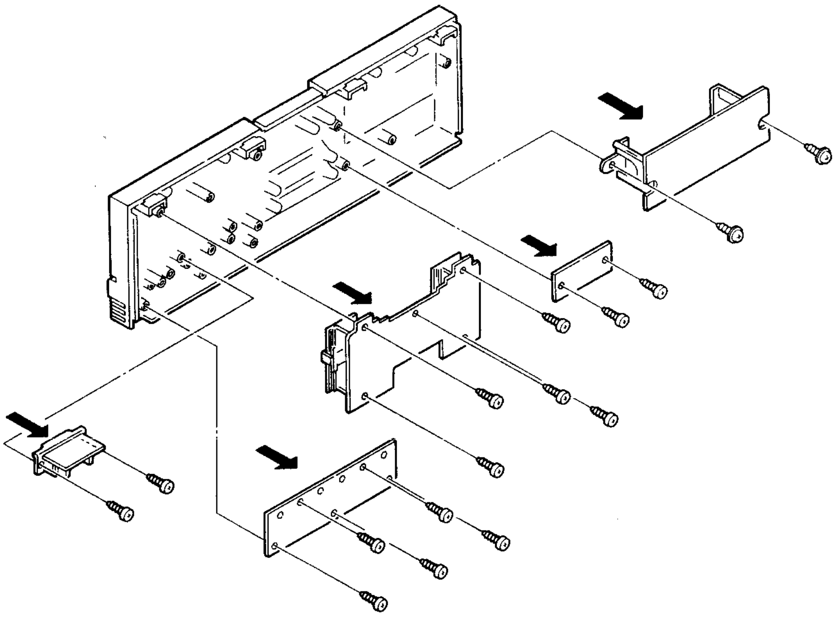


FRONT PANEL AND BACK PANEL REMOVAL



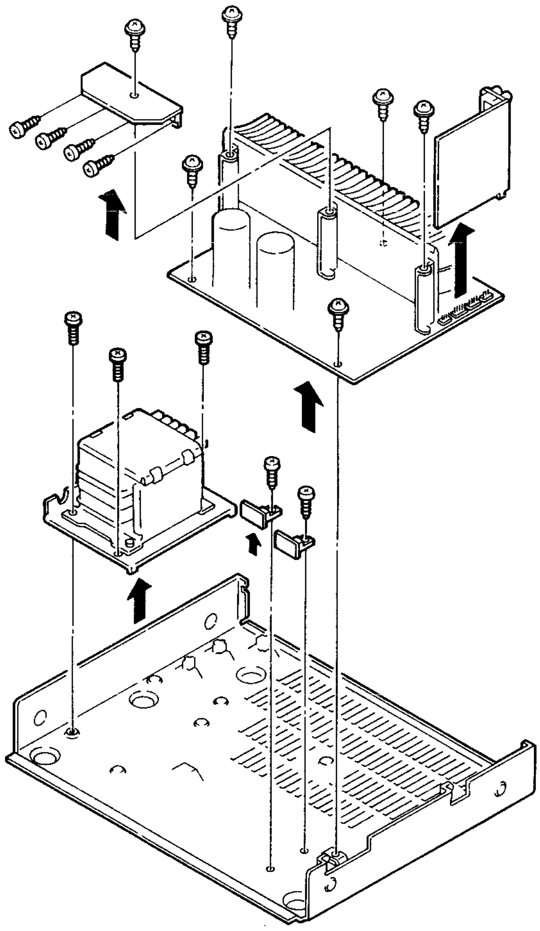
PCB REMOVAL





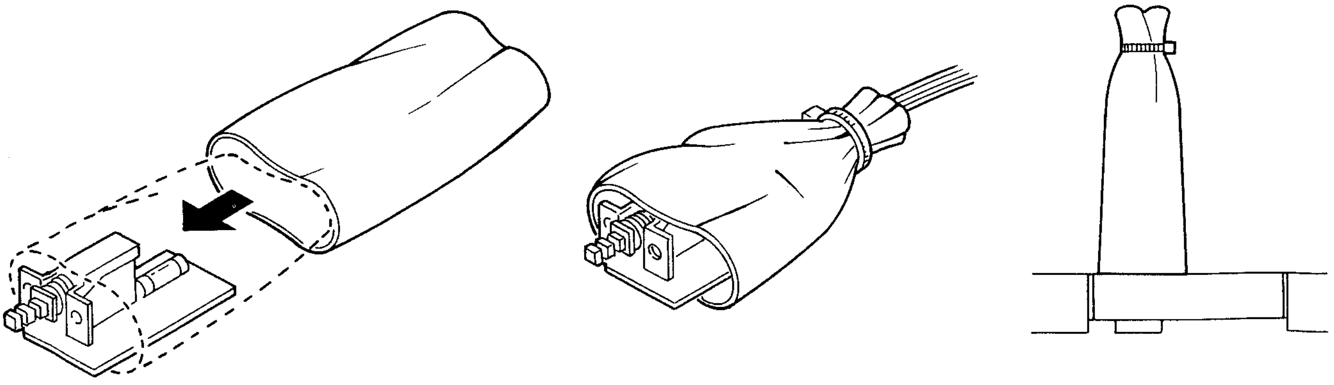
DISASSEMBLY

POWER TRANSFORMER AND PCB REMOVAL

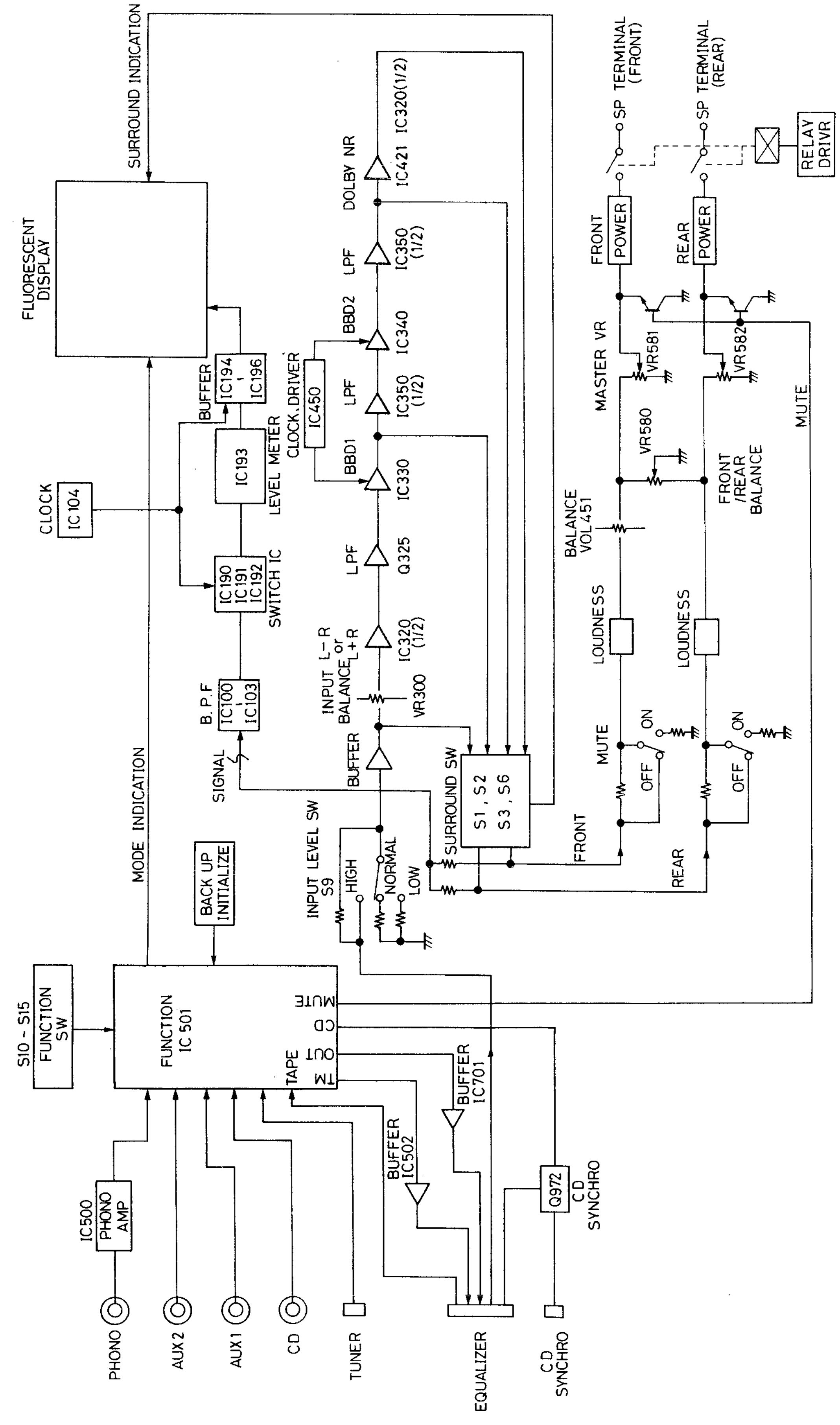


SAFETY CAUTION:

WHEN REMOUNTING THE POWER SWITCH PCB ASSY, DO NOT FORGET TO COVER THIS PCB ASSY WITH TUBE (REF. NO. 29) COMPLETELY AND SECURELY FIX THEM WITH FIXER (REF. NO. 30). BE CAREFUL NOT TO EXPOSE THE PCB ASSY FROM THE TUBE TO PREVENT ELECTRICAL SHOCK.



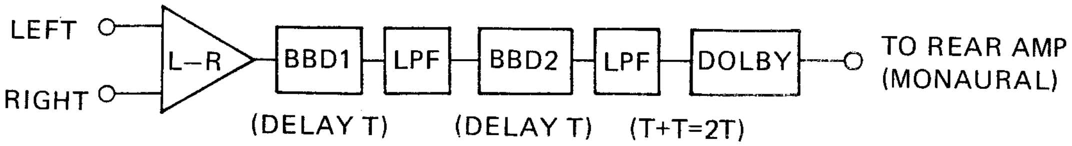
BLOCK DIAGRAM



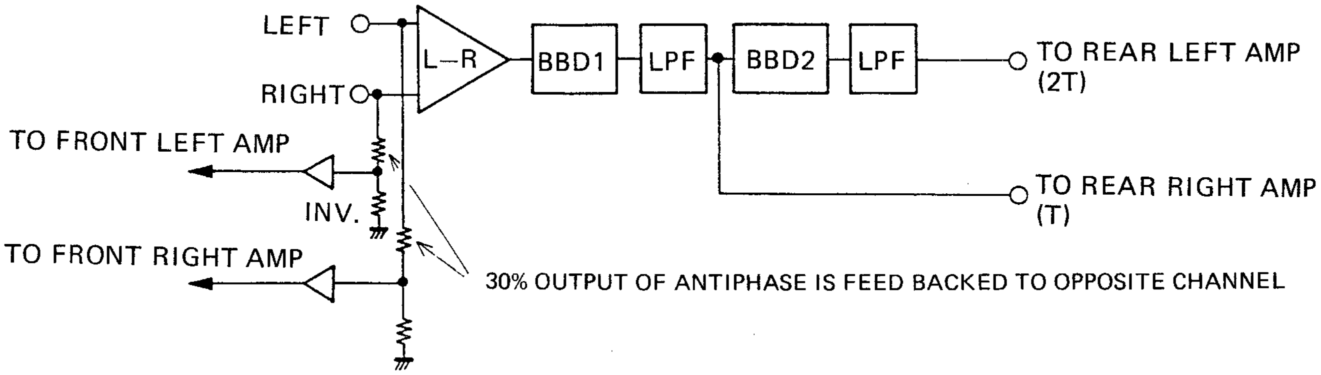
SURROUND INDICATION
FLUORESCENT DISPLAY
MODE INDICATION
CLOCK
IC104
BUFFER
IC194 ~ IC196
IC193
LEVEL METER
IC190 IC191 IC192
SWITCH IC
B.P.F
IC100 ~ IC103
SIGNAL
BACK UP INITIALIZE
S10 - S15 FUNCTION SW
FUNCTION IC 501
MUTE
CD
OUT
TAPE
TM
IC500 PHONO AMP
PHONO
AUX 2
AUX 1
CD
TUNER
EQUALIZER
CD SYNCHRO
BUFFER IC502
BUFFER IC701
Q972 CD SYNCHRO
INPUT LEVEL SW S9
HIGH
NORMAL
LOW
BUFFER
INPUT BALANCE
L-R or L+R
VR300
IC320 (1/2)
LPF
Q325
BBD1
IC330
CLOCK.DRIVER
IC450
IC350 (1/2)
BBD2
IC340
IC350 (1/2)
DOLBY NR
IC421 IC320(1/2)
SURROUND SW
S1, S2
S3, S6
FRONT
REAR
MUTE
ON
OFF
LOUDNESS
BALANCE VOL451
VR580
FRONT /REAR BALANCE
MASTER VR
VR581
VR582
FRONT POWER
REAR POWER
SP TERMINAL (FRONT)
SP TERMINAL (REAR)
RELAY DRIVR
MUTE

SURROUND BLOCK DIAGRAM

DOLBY SURROUND

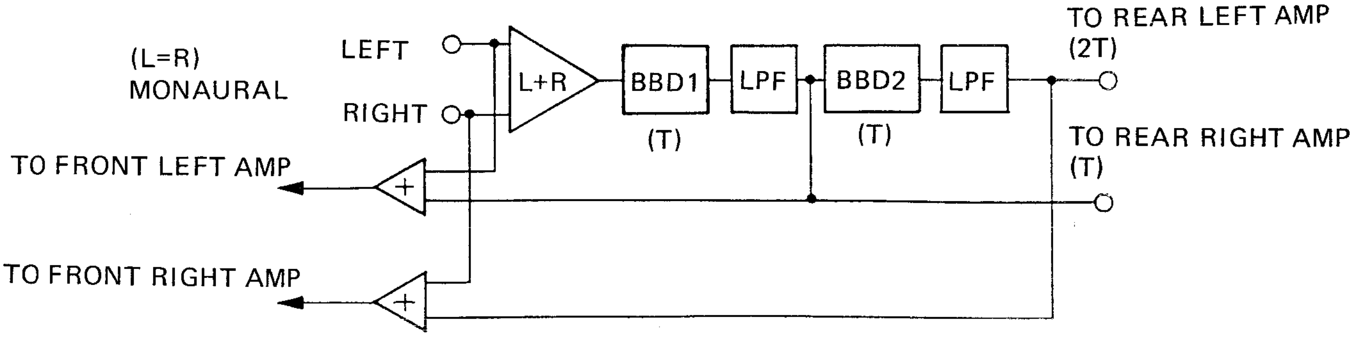

LEFT
RIGHT
L–R
BBD1
LPF
BBD2
LPF
DOLBY
TO REAR AMP
(MONAURAL)
(DELAY T)
(DELAY T)
(T+T=2T)

HALL SURROUND


LEFT
RIGHT
L–R
BBD1
LPF
BBD2
LPF
TO REAR LEFT AMP
(2T)
TO REAR RIGHT AMP
(T)
TO FRONT LEFT AMP
INV.
TO FRONT RIGHT AMP

30% OUTPUT OF ANTIPHASE IS FEED BACKED TO OPPOSITE CHANNEL

STEREO MATRIX


(L=R)
MONAURAL
LEFT
RIGHT
L+R
BBD1
LPF
BBD2
LPF
(T)
(T)
TO REAR LEFT AMP
(2T)
TO REAR RIGHT AMP
(T)
TO FRONT LEFT AMP
+
TO FRONT RIGHT AMP
+

	FRONT LEFT	FRONT RIGHT	REAR LEFT	REAR RIGHT
DOLBY SURROUND	L	R	(L–R) + 2T + DOLBY	(L–R) + 2T + DOLBY
HALL SURROUND	L–R/3	R–L/3	(L–R) + 2T	(L–R) + T
STEREO MATRIX	L + REAR L	R + REAR R	(L+R) + 2T	(L+R) + T

NOTE: T means 7.5 msec. – 15 msec. delay time at one BBD (1024 stages). In the DOLBY SURROUND mode, delay time becomes 2T and it can be adjusted in the range of 15 msec. – 30 msec.

ELECTRICAL ADJUSTMENTS

A. BIAS ADJUSTMENT

CONDITIONS

1. No signal
2. All switches : OFF
3. Main volume : Minimum
4. Adjustment should be made after 3 minutes that the power switch is turned on.

A-1. Front

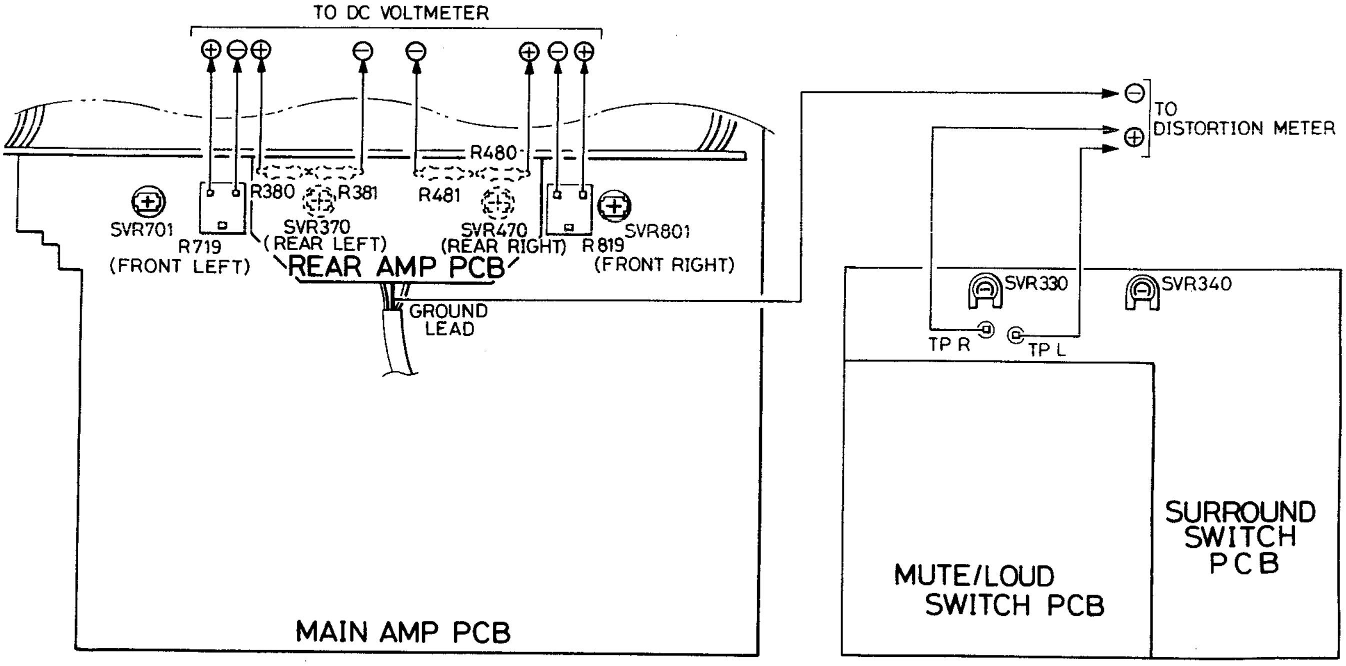
1. Adjust SVR701 to obtain 0.5 – 1.0mV reading on DC voltmeter connected to terminals of R719.
2. Adjust SVR801 to obtain 0.5 – 1.0mV reading on DC voltmeter connected to terminals of R819.

A-2. Rear

1. Adjust SVR370 to obtain 0.5 – 1.0mV reading on DC voltmeter connected to terminals of R380 and R381.
2. Adjust SVR470 to obtain 0.5 – 1.0mV reading on DC voltmeter connected to terminals of R480 and R481.

B. BBD (BUCKET BRIGADE DEVICE) OFFSET ADJUSTMENT

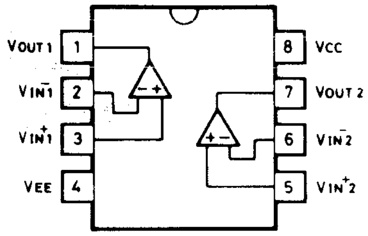
1. Connect the audio signal generator to the left channel socket of AUX1.
2. Input the 1kHz 1V signal.
3. Set the controls of the unit as follows.
   MUTE switch : ON
   LOUDNESS switch : OFF
   SURROUND switch : ON
   FUNCTION switch : AUX1
   SPEAKER switch : OFF
   VOLUME control : MAX
   INPUT LEVEL control : HIGH
   INPUT BAL control : CENTER
   DELAY TIME control : CENTER
   BALANCE control : CENTER
4. Connect the distortion meter to TP-R and adjust the SVR330 to minimize the distortion (arround 1%).
5. Connect the distorition meter to TP-L and adjust the SVR340 to minimize the distortion (arround 1%).


TO DC VOLTMETER
⊕⊖⊕ ⊖ ⊖ ⊕⊖⊕
R480
R380
R381
R481
SVR701
R719
(FRONT LEFT)
SVR370
(REAR LEFT)
SVR470
(REAR RIGHT)
R819
SVR801
(FRONT RIGHT)
REAR AMP PCB
GROUND LEAD
MAIN AMP PCB
⊖
⊕
TO DISTORTION METER
SVR330
SVR340
TP R
TP L
MUTE/LOUD SWITCH PCB
SURROUND SWITCH PCB

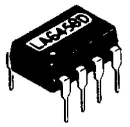
IC BLOCK DIAGRAMS

LA6458D (DUAL OPERATIONAL AMP.)

IC100/IC101/IC102/IC103/IC320/IC500

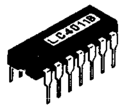


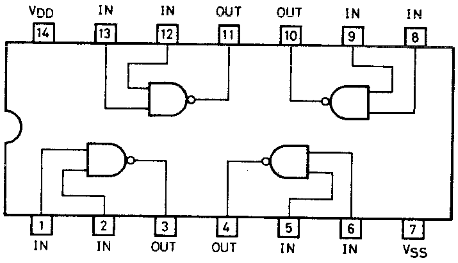
VOUT1 1
VIN1- 2
VIN1+ 3
VEE 4
8 VCC
7 VOUT2
6 VIN2-
5 VIN2+



LC4011B (QUAD 2-INPUT NAND GATE)

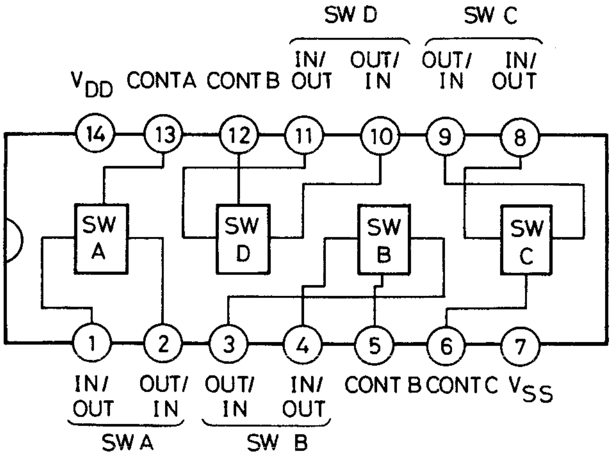
IC104



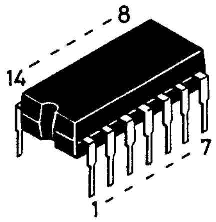


VDD 14
IN 13
IN 12
OUT 11
OUT 10
IN 9
IN 8
1 IN
2 IN
3 OUT
4 OUT
5 IN
6 IN
7 VSS

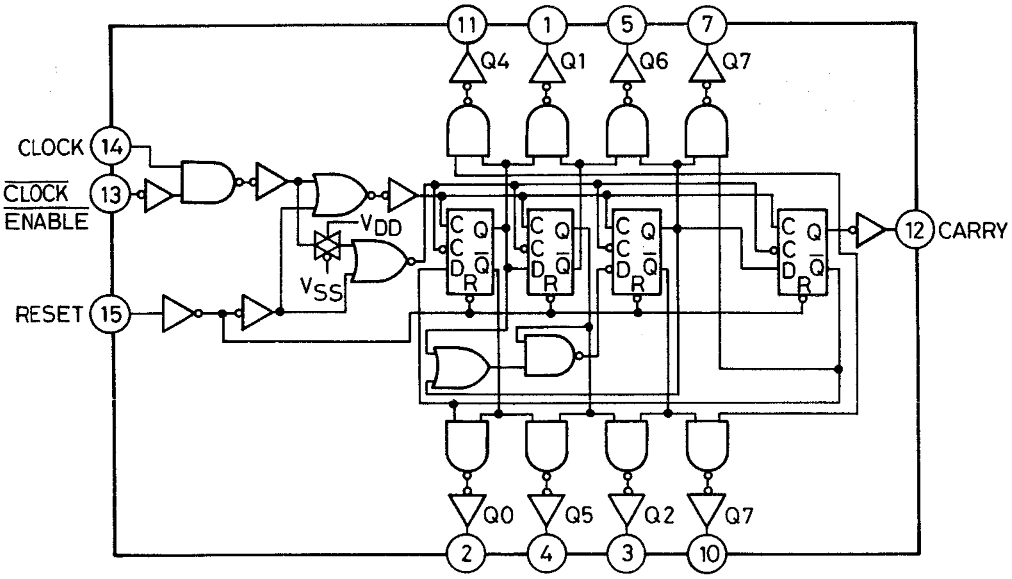
LC4016B (QUAD BILATERAL SWITCH) IC190/IC191



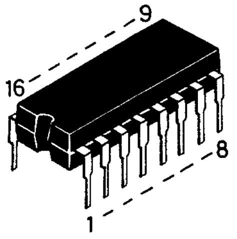
SW D
SW C
VDD 14
CONT A 13
CONT B 12
IN/OUT 11
OUT/IN 10
OUT/IN 9
IN/OUT 8
SW A
SW D
SW B
SW C
1 IN/OUT
2 OUT/IN
3 OUT/IN
4 IN/OUT
5 CONT B
6 CONT C
7 VSS
SW A
SW B



MC14022B (OCTAL COUNTER) IC192

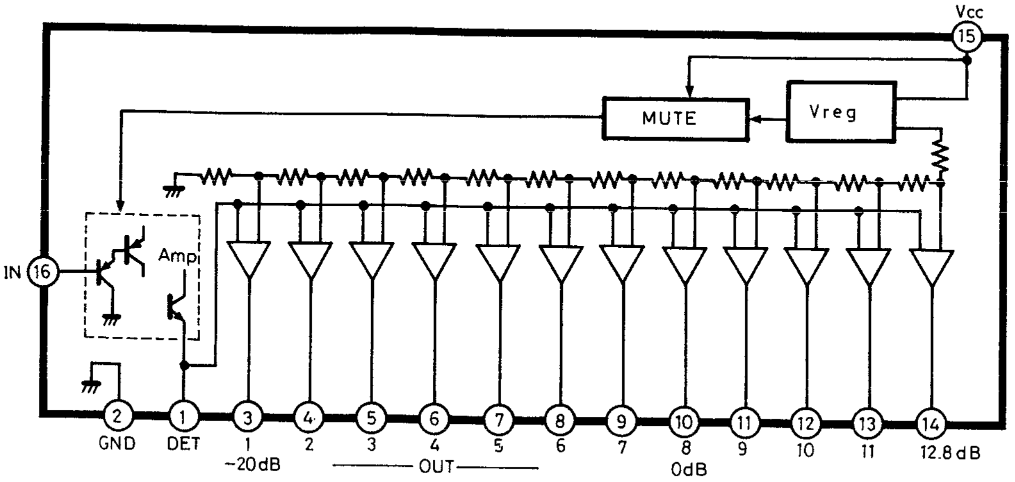


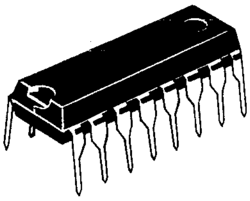
11 Q4
1 Q1
5 Q6
7 Q7
CLOCK 14
CLOCK ENABLE 13
RESET 15
VDD
VSS
C C D Q Q R
12 CARRY
Q0 2
Q5 4
Q2 3
Q7 10



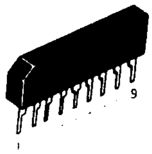
IC BLOCK DIAGRAMS

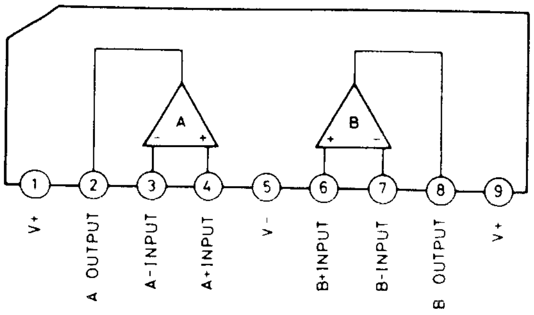
BA6146 (LEVEL METER DRIVER FOR FL) IC193


Vcc
15
MUTE
Vreg
Amp
IN
16
2
GND
1
DET
3
1
-20dB
4
2
5
3
6
4
7
5
8
6
9
7
10
8
0dB
11
9
12
10
13
11
14
12.8dB
OUT

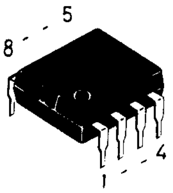


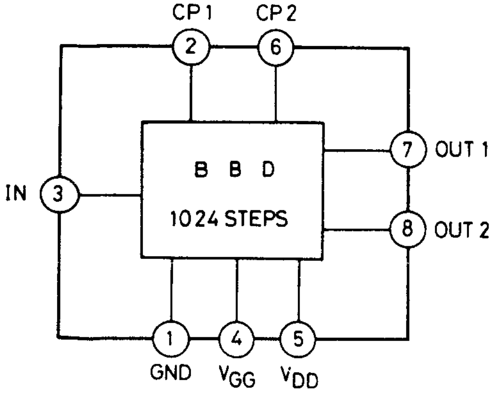
LA6458S (DUAL OPERATIONAL AMP.) IC300/IC310/IC350/IC502/IC701



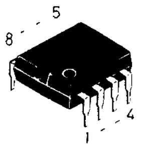

A
-
+
B
+
-
1
V+
2
A OUTPUT
3
A-INPUT
4
A+INPUT
5
V-
6
B+INPUT
7
B-INPUT
8
B OUTPUT
9
V+

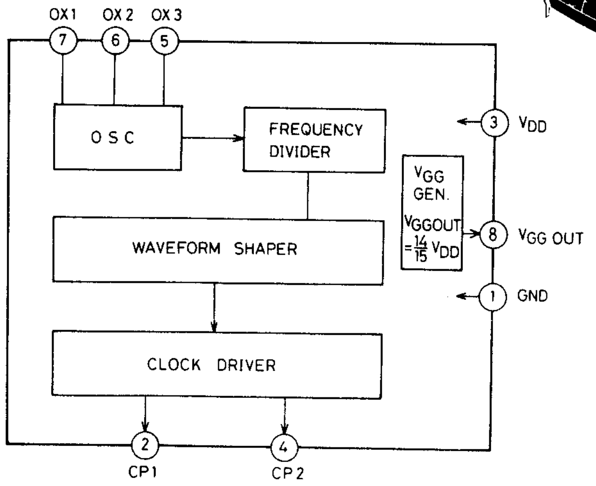
MN3007 (1024 STAGE LOW NOISE BBD) IC330/IC340




CP1
2
CP2
6
IN
3
B B D
1024 STEPS
7
OUT 1
8
OUT 2
1
GND
4
VGG
5
VDD

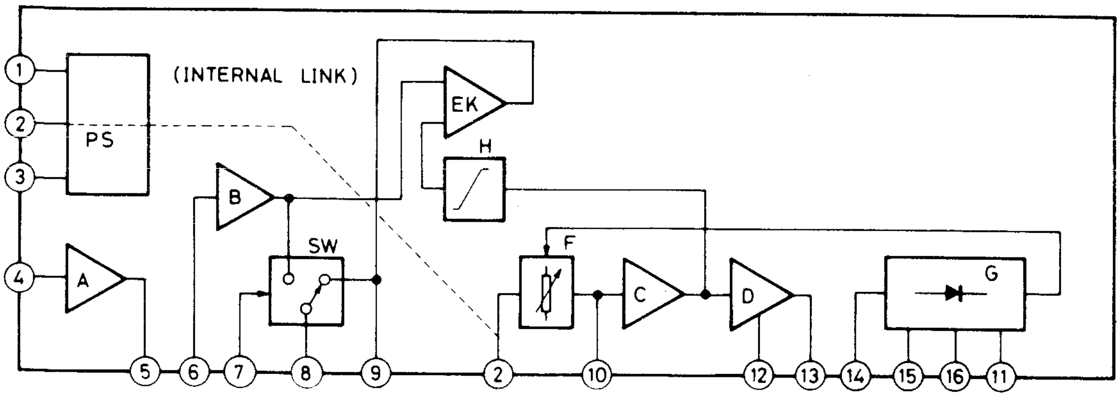
MN3101 (CLOCK GENERATOR/DRIVER FOR BBD) IC450

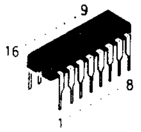



OX1
7
OX2
6
OX3
5
OSC
FREQUENCY DIVIDER
3
VDD
VGG GEN.
VGGOUT = 14/15 VDD
8
VGG OUT
1
GND
WAVEFORM SHAPER
CLOCK DRIVER
2
CP1
4
CP2

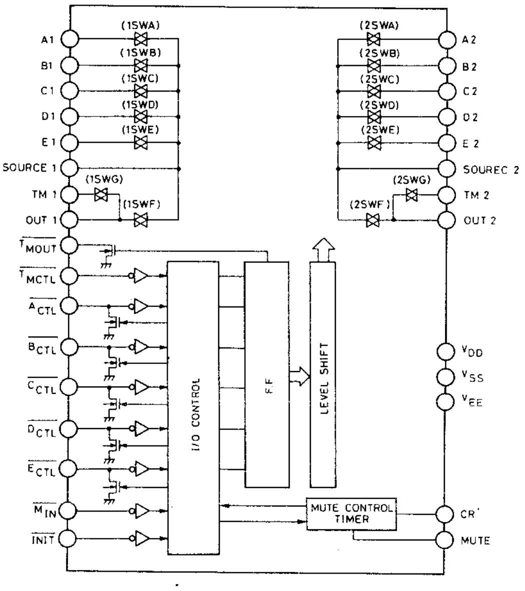
IC BLOCK DIAGRAMS

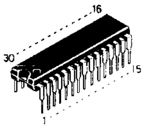
TA7629P (DOLBY NOISE REDUCTION TYPE B) IC421


(INTERNAL LINK)
PS
A
B
SW
EK
H
F
C
D
G
1
2
3
4
5
6
7
8
9
2
10
12
13
14
15
16
11

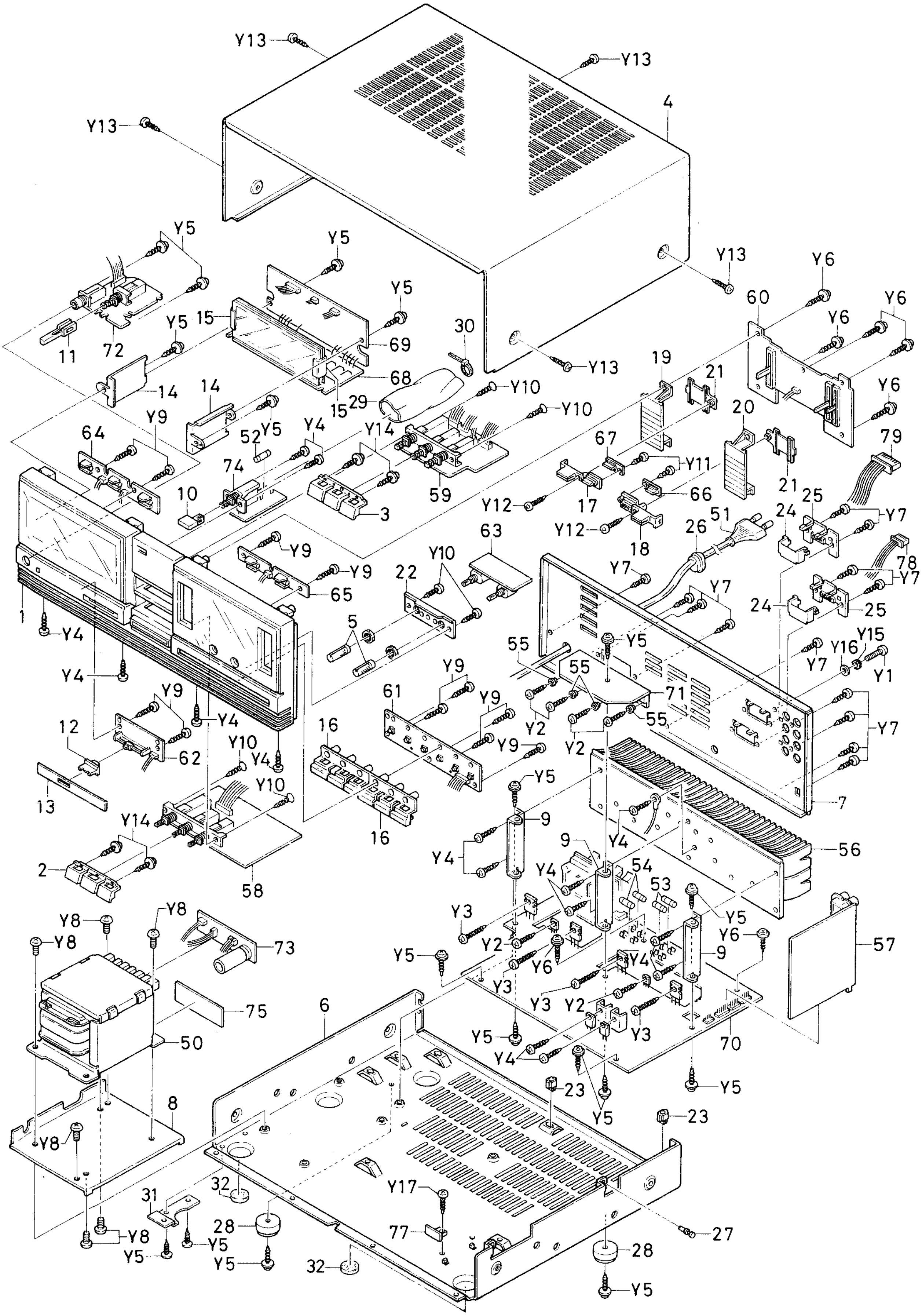


LC7818 (ANALOGUE FUNCTION SWITCH) IC501


A1
B1
C1
D1
E1
SOURCE 1
TM 1
OUT 1
$\overline{^{T}MOUT}$
$\overline{^{T}MCTL}$
$\overline{^{A}CTL}$
$\overline{^{B}CTL}$
$\overline{^{C}CTL}$
$\overline{^{D}CTL}$
$\overline{^{E}CTL}$
$\overline{^{M}IN}$
$\overline{INIT}$
(1SWA)
(1SWB)
(1SWC)
(1SWD)
(1SWE)
(1SWG)
(1SWF)
(2SWA)
(2SWB)
(2SWC)
(2SWD)
(2SWE)
(2SWG)
(2SWF)
A2
B2
C2
D2
E2
SOUREC 2
TM 2
OUT 2
I/O CONTROL
F.F
LEVEL SHIFT
MUTE CONTROL TIMER
V_{DD}
V_{SS}
V_{EE}
CR'
MUTE



CABINET & CHASSIS EXPLODED VIEW


Y13
Y13
Y13
4
Y5
Y5
Y5
Y13
Y6
Y5
15
69
30
Y13
60
Y6
Y6
11
72
14
68
19
21
Y6
14
15
29
Y10
Y10
20
64
Y9
Y5
Y14
52
Y4
67
Y11
79
74
21
10
3
59
Y12
17
66
25
Y12
18
51
24
Y7
Y9
63
26
Y10
Y9
22
78
Y7
65
Y7
Y7
1
Y4
5
24
25
55
Y5
Y15
Y16
Y1
Y7
Y4
Y9
61
55
Y9
Y2
71
55
Y7
12
Y9
Y4
16
Y10
Y9
Y2
62
Y4
Y5
13
Y10
7
Y14
16
9
Y4
9
54
56
2
58
Y4
53
Y3
Y5
Y8
Y8
Y2
Y6
9
57
Y8
73
Y5
Y6
Y4
Y3
Y3
Y2
75
6
Y3
50
Y5
70
Y4
23
8
Y5
Y5
23
Y8
32
Y17
31
28
27
Y8
77
Y5
Y5
28
Y5
32
Y5

PARTS LIST

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual.

Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

NOTE:

* Materials of Capacitors are abbreviated as follows;

AL ELECT..........Aluminum Electrolytic
BC CON............Semiconductor Ceramic
CHIP BC ....Chip Semiconductor Ceramic
CHIP TAN..........Chip Tantal
ELECT ....Electrolytic
PP CON............Polypropylene

* Tolerance of Capacitors are noted with following symboles;

J ....±5%
K..................±10%
M ....±20%
N..................±30%
P ....+100−0%
Q ....+30−10%
Z ....+80−20%

PACKING & ACCESSORIES

Ref. No.	Part No.	Description
	141-6-133T-87702	INNER CORR CASE
	141-6-479T-87200	LABEL
	141-6-415T-43800	NOTICE
	141-6-145T-21600	FOAM PLASTIC CASE, LEFT
	141-6-145T-21601	FOAM PLASTIC CASE, RIGHT
	141-6-409T-42103	INST MANUAL
	141-6-235T-55700	INNER POLYE LAMINA COVER, 550X700
or	141-6-235T-55705	INNER POLYE LAMINA COVER, 550X700

CABINET & CHASSIS

Ref. No.	Part No.	Description
1	141-0-122T-67400	FRONT PANEL ASSY
2	141-2-160T-81704	PUSH BUTTON, SORROUND MODE
3	141-2-160T-81707	PUSH BUTTON, LOUD/MUTE/SURROUND
4	141-2-111T-73400	CABINET
5	141-2-165T-09200	ROTARY KNOB, INPUT/DELAY
6	141-2-125T-44200	BOTTOM LID
7	141-2-119T-06004	BACK PANEL
8	141-2-315T-30902	REINFORCEMENT, P.T.
9	141-2-290T-27100	BRACKET, HEAT SINK
10	141-2-160T-60303	PUSH BUTTON, POWER SWITCH
11	141-2-160T-60801	PUSH BUTTON, SPEAKER
12	141-2-164T-41801	SLIDE KNOB, BALANCE
13	141-2-247T-69000	SHEET, BALANCE
14	141-2-290T-26400	BRACKET, FL PCB
15	141-2-448T-38500	CUSHION, FL PROTECTION
16	141-2-160T-84000	PUSH BUTTON, FUNCTION
17	141-0-156T-39500	CUP KNOB ASSY, SURROUND
18	141-0-156T-39502	CUP KNOB ASSY, VOLUME
19	141-2-210T-83800	BRACKET, SURROUND
20	141-2-210T-83801	BRACKET, VOLUME
21	141-2-253T-48600	JOINT, SURROUND/VOLUME
22	141-2-290T-27900	BRACKET, INPUT/DELAY
23	141-2-210T-08900	BRACKET, MAIN AMP PCB
24	141-2-210T-71200	BRACKET, SOCKET WITH LEAD MTG
25	141-2-210T-71300	BRACKET, SOCKET WITH LEAD MTG
26	141-2-464T-14400	FIXER, AC POWER CORD
27	141-2-464T-40500	FIXER, FUNCTION PCB MTG
28	141-2-174T-16900	STAND
29	141-2-490T-18430	TUBE, AC COVER 110MM
30	141-2-464T-43100	FIXER, AC COVER
31	141-2-315T-34500	REINFORCEMENT
32	141-2-174T-14000	STAND
or	141-2-174T-14002	STAND
Y1	141-2-421T-28800	SPECIAL SCREW
Y2	BJBYS++3+8+Z1	BIND HD SCREW 3X8
Y3	BJB2S++312+Z1	BIND HD 2 TAPPING SCREW 3X12
Y4	BJB2S++3+8+Z1	BIND HD 2 TAPPING SCREW 3X8
Y5	BJX6S++3+8+Z1	PAN WASHER HD 2 TAPPING SCREW 3X8
Y6	BJX6S++310+Z1	PAN WASHER HD 2 TAPPING SCREW 3X10
Y7	141-2-421T-43931	SPECIAL SCREW
Y8	BJESS++4+8+Z1	BIND HD S TITE SCREW 4X8
Y9	BJB2S++310+Z1	BIND HD 2 TAPPING SCREW 3X10
Y10	BJS2S++3+8+Z1	FLAT HD 2 TAPPING SCREW 3X8
Y11	BJN2S2R3+6+Z1	PAN HD 2 TAPPING SCREW 2.3X6
Y12	BJN2S++3+8+Z1	PAN HD 2 TAPPING SCREW 3X8
Y13	BJB2S++3+8+ZK	BIND HD 2 TAPPING SCREW 3X8
Y14	BJX6S++2+8+Z1	PAN WASHER HD 2 TAPPING SCREW 2X8
Y15	WJHGK++3K0CZ1	OUTER TOOTHED LOCK WASHER 3X6.5X0.45T
Y16	WJBWS++3J10N1	WASHER 3X10X1T
Y17	BJESS++3+8+Z1	BIND HD S TITE SCREW 3X8

ELECTRICAL PARTS

Ref. No.	Part No.	Description
50	⚠ 4-320T-23600	POWER TRANSFORMER
51	⚠ 4-243T-84973	AC POWER CORD
52	⚠ 4-234T-10590	FUSE T3.15A 250V (F901)
53	⚠ 4-234T-10588	FUSE T2.0A 250V (F301/F401)
54	⚠ 4-234T-10591	FUSE T4.0A 250V (F701/F801)
55	141-2-243T-09800	BASE
56	141-2-368T-33700	HEAT SINK
75	4-290T-39200	P.C BOARD, P.T. PRIMARY
	141-2-472T-00401	LUG, GROUND FTZ
	141-2-327T-18200	INSULATOR, Q708/Q808
	4-240T-47672	SOCKET, 2P
	4-240T-47673	SOCKET, 3P
	4-240T-83575	SOCKET, 5P
	4-240T-83576	SOCKET, 6P
	4-267T-17175	SOCKET, 5P, TUNER
	4-267T-17177	SOCKET, 7P, G.EQ.
	4-267T-17178	SOCKET, 8P, G.EQ.
	4-240T-47673	SOCKET, 3P
	4-240T-83572	SOCKET, 2P
	4-240T-83573	SOCKET, 3P

PARTS LIST

Ref. No.	Part No.	Description
	4-240T-83574	SOCKET, 4P
	4-240T-83575	SOCKET, 5P
	4-240T-83576	SOCKET, 6P
	4-240T-83577	SOCKET, 7P
	4-240T-83579	SOCKET, 9P
C13	CC+50821KRYBF	CERAMIC 820PF 50V K R YB
R1	401 012 3407	CARBON 10 JA 1/4W

FUNCTION PCB ASSY

Ref. No.	Part No.	Description
57	141-4-290T-23501	P.C BOARD ASSY, FUNCTION
	4-240T-50400	SOCKET, RCA 4P, TV/CD
	4-240T-50471	SOCKET, RCA 4P, PHONO/VCR
	4-240T-18503	SOCKET, 3P
	4-240T-18505	SOCKET, 5P
	4-240T-18507	SOCKET, 7P
	4-267T-52680	SOCKET, 6P TO FL
	4-267T-51600	SOCKET, 3P
	4-236T-32377	PLUG, 7P
S9	4-248T-31200	SWITCH, SURROUND INPUT
RA500	4-221T-10782	RESISTOR 7P 10K J
IC500	SILA6458DS+++	IC LA6458DS DIP08
IC501	SILC7818+++++	IC LC7818 DIP30
IC502	SILA6458S++++	IC LA6458S SIP9
D530	SDGMA01+++++T	DIODE GMA01
D531	SDMTZ075B+++T	ZENER DIODE MTZ7.5B
D532	SDGMA01+++++T	DIODE GMA01
C40	CC+50103ZDZFS	CERAMIC 0.01MF 50V Z D ZF
C41	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF
C500	CE+25475RRLRF	ELECT 4.7MF 25V R R LR
C501	CC+50221JDSLS	CERAMIC 220PF 50V J D SL
C502	CC+50821KDYBS	CERAMIC 820PF 50V K D YB
C503	CE6R3336MY++S	ELECT 33MF 6.3V M Y
C504	CB+25183KDXRS	BC CON 0.018MF 25V K D XR
C505	CB+25472KDXRS	BC CON 0.0047MF 25V K D XR
C506	CW+50105MVNPS	NONPOLAR 1MF 50V M V NP
C507	CM+50392MR++F	MYLAR 0.0039MF 50V M R
C510	CC+50561KRYBF	CERAMIC 560PF 50V K R YB
C511	CC+50561KRYBF	CERAMIC 560PF 50V K R YB
C512	CC+50561KRYBF	CERAMIC 560PF 50V K R YB
C520	CE+50105MR++F	ELECT 1MF 50V M R
C521	CC+50221JRSLF	CERAMIC 220PF 50V J R SL
C523	CW+50105MVNPS	NONPOLAR 1MF 50V M V NP
C524	CE+50105MR++F	ELECT 1MF 50V M R
C530	CB+25333KRXRF	BC CON 0.033MF 25V K R XR
C531	CE+16477MVHAS	ELECT 470MF 16V M V HA S
C532	CE+25475MR++F	ELECT 4.7MF 25V M R
C533	CE+16106MR++F	ELECT 10MF 16V M R
C534	CE+16476MY++S	ELECT 47MF 16V M Y
C535	CE+16476MY++S	ELECT 47MF 16V M Y
C536	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF
C537	CC+50103ZDZFS	CERAMIC 0.01MF 50V Z D ZF
C600	CE+25475RRLRF	ELECT 4.7MF 25V R R LR
C601	CC+50221JRSLF	CERAMIC 220PF 50V J R SL
C602	CC+50821KRYBF	CERAMIC 820PF 50V K R YB
C603	CE6R3336MR++F	ELECT 33MF 6.3V M R
C604	CB+25183KRXRF	BC CON 0.018MF 25V K R XR
C605	CB+25472KRXRF	BC CON 0.0047MF 25V K R XR
C606	CW+50105MVNPS	NONPOLAR 1MF 50V M V NP
C607	CM+50392MR++F	MYLAR 0.0039MF 50V M R
C610	CC+50561KRYBF	CERAMIC 560PF 50V K R YB
C611	CC+50561KRYBF	CERAMIC 560PF 50V K R YB
C612	CC+50561KRYBF	CERAMIC 560PF 50V K R YB
C620	CE+50105MR++F	ELECT 1MF 50V M R
C621	CC+50221JRSLF	CERAMIC 220PF 50V J R SL
C623	CW+50105MVNPS	NONPOLAR 1MF 50V M V NP
C624	CE+50105MR++F	ELECT 1MF 50V M R
R500	401 024 7004	CARBON 1K JA 1/6W
R501	401 027 0309	CARBON 47K JA 1/6W
R502	401 026 3905	CARBON 330 JA 1/6W
R503	401 026 1604	CARBON 270K JA 1/6W
R504	401 025 1902	CARBON 15K JA 1/6W
R505	401 027 2303	CARBON 560 JA 1/6W
R506	401 024 7707	CARBON 100K JA 1/6W
R510	401 024 7004	CARBON 1K JA 1/6W
R511	401 025 8703	CARBON 220K JA 1/6W
R512	401 024 7004	CARBON 1K JA 1/6W
R513	401 025 8703	CARBON 220K JA 1/6W
R514	401 024 7004	CARBON 1K JA 1/6W
R515	401 025 8703	CARBON 220K JA 1/6W
R520	401 024 7004	CARBON 1K JA 1/6W
R521	401 025 8703	CARBON 220K JA 1/6W
R530	401 027 0309	CARBON 47K JA 1/6W
R531	401 024 8001	CARBON 1M JA 1/6W
R532	401 027 0309	CARBON 47K JA 1/6W
R533	401 024 7400	CARBON 10K JA 1/6W
R570	401 027 0309	CARBON 47K JA 1/6W
R571	401 024 7707	CARBON 100K JA 1/6W
R572	401 025 4606	CARBON 18K JA 1/6W
R600	401 024 7004	CARBON 1K JA 1/6W
R601	401 027 0309	CARBON 47K JA 1/6W
R602	401 026 3905	CARBON 330 JA 1/6W
R603	401 026 1604	CARBON 270K JA 1/6W
R604	401 025 1902	CARBON 15K JA 1/6W
R605	401 027 2303	CARBON 560 JA 1/6W
R606	401 024 7707	CARBON 100K JA 1/6W
R610	401 024 7004	CARBON 1K JA 1/6W
R611	401 025 8703	CARBON 220K JA 1/6W
R612	401 024 7004	CARBON 1K JA 1/6W
R613	401 025 8703	CARBON 220K JA 1/6W
R614	401 024 7004	CARBON 1K JA 1/6W
R615	401 025 8703	CARBON 220K JA 1/6W
R620	401 024 7004	CARBON 1K JA 1/6W
R621	401 025 8703	CARBON 220K JA 1/6W
R670	401 027 0309	CARBON 47K JA 1/6W
R671	401 024 7707	CARBON 100K JA 1/6W
R672	401 025 4606	CARBON 18K JA 1/6W

SURROUND SWITCH PCB ASSY

Ref. No.	Part No.	Description
58	141-4-290T-23600	P.C BOARD ASSY, SURROUND SWITCH
	141-2-382T-21000	TERMINAL
	4-267T-52374	SOCKET, 3P TO MAIN
	4-236T-32273	PLUG, 3P
	4-236T-32274	PLUG, 4P
S1~3	4-248T-31000	SWITCH, SURROUND
SVR330	4-222T-97575	SEMI-FIXED RESISTOR, 10KB
SVR340	4-222T-97575	SEMI-FIXED RESISTOR, 10KB
IC300	SILA6458S++++	IC LA6458S SIP9
IC310	SILA6458S++++	IC LA6458S SIP9
IC320	SILA6458D++++	IC LA6458D DIP08
IC330	SIMN3007+++++	IC MN3007 DIP8
IC340	SIMN3007+++++	IC MN3007 DIP8
IC350	SILA6458S++++	IC LA6458S SIP9
IC421	SITA7629P++++	IC TA7629P DIP16
IC450	SIMN3101+++++	IC MN3101 DIP8
Q325	STC536+F+++U1	TR 2SC536 F AUD SP
Q330	STC536+F+++U1	TR 2SC536 F AUD SP
Q340	STC536+F+++U1	TR 2SC536 F AUD SP
D450	SDGMA01+++++T	DIODE GMA01
C300	CE+50105MR++F	ELECT 1MF 50V M R
C301	CE+16106MR++F	ELECT 10MF 16V M R
C310	CE+50105MR++F	ELECT 1MF 50V M R
C311	CE+16106MR++F	ELECT 10MF 16V M R
C312	CC+50150JRSLF	CERAMIC 15PF 50V J R SL
C313	CE+16106MR++F	ELECT 10MF 16V M R
C320	CE+50104MR++F	ELECT 0.1MF 50V M R
C321	CE+50104MR++F	ELECT 0.1MF 50V M R
C325	CB+25332KRXRF	BC CON 0.0033MF 25V K R XR
C326	CC+50821KRYBF	CERAMIC 820PF 50V K R YB

PARTS LIST

Ref. No.	Part No.	Description
C327	CE+16106MR++F	ELECT 10MF 16V M R
C330	CE+50105MR++F	ELECT 1MF 50V M R
C331	CC+50102KRYBF	CERAMIC 0.001MF 50V K R YB
C332	CE+16106MR++F	ELECT 10MF 16V M R
C340	CE+50105MR++F	ELECT 1MF 50V M R
C341	CC+50102KRYBF	CERAMIC 0.001MF 50V K R YB
C342	CE+16106MR++F	ELECT 10MF 16V M R
C350	CB+25562KRXRF	BC CON 0.0056MF 25V K R XR
C351	CC+50821KRYBF	CERAMIC 820PF 50V K R YB
C352	CB+25272KRXRF	BC CON 0.0027MF 25V K R XR
C353	CE+16106MR++F	ELECT 10MF 16V M R
C360	CB+25562KRXRF	BC CON 0.0056MF 25V K R XR
C361	CC+50821KRYBF	CERAMIC 820PF 50V K R YB
C362	CB+25272KRXRF	BC CON 0.0027MF 25V K R XR
C363	CE+16106MR++F	ELECT 10MF 16V M R
C400	CE+50105MR++F	ELECT 1MF 50V M R
C401	CE+16106MR++F	ELECT 10MF 16V M R
C410	CE+50105MR++F	ELECT 1MF 50V M R
C411	CE+16106MR++F	ELECT 10MF 16V M R
C412	CC+50150JRSLF	CERAMIC 15PF 50V J R SL
C413	CE+16106MR++F	ELECT 10MF 16V M R
C420	CE+16106MR++F	ELECT 10MF 16V M R
C421	CE+16106MY++S	ELECT 10MF 16V M Y
C422	CB+25473JRXRF	BC CON 0.047MF 25V J R XR
C423	CB+25472JRXRF	BC CON 0.0047MF 25V J R XR
C424	CB+25273JRXRF	BC CON 0.027MF 25V J R XR
C425	CE+50105MR++F	ELECT 1MF 50V M R
C426	CE+50105MR++F	ELECT 1MF 50V M R
C427	CB+25562JRXRF	BC CON 0.0056MF 25V J R XR
C428	CE+50104MR++F	ELECT 0.1MF 50V M R
C429	CE+50334MR++F	ELECT 0.33MF 50V M R
C430	CE+10107MR++F	ELECT 100MF 10V M R
C431	CE+16106MR++F	ELECT 10MF 16V M R
C450	CE+25475MR++F	ELECT 4.7MF 25V M R
C451	CC+50101JRSLF	CERAMIC 100PF 50V J R SL
C452	CE+16106MR++F	ELECT 10MF 16V M R
C453	CE+16476MR++F	ELECT 47MF 16V M R
C460	CE+16476MR++F	ELECT 47MF 16V M R
C461	CE+16476MR++F	ELECT 47MF 16V M R
R300	401 024 7707	CARBON 100K JA 1/6W
R301	401 024 7400	CARBON 10K JA 1/6W
R302	401 024 7400	CARBON 10K JA 1/6W
R304	401 016 3809	CARBON 2.2K JA 1/4W
R305	401 027 5908	CARBON 68K JA 1/6W
R306	401 027 0309	CARBON 47K JA 1/6W
R310	401 012 7009	CARBON 10K JA 1/4W
R311	401 016 4806	CARBON 22K JA 1/4W
R312	401 025 4606	CARBON 18K JA 1/6W
R313	401 017 2801	CARBON 27K JA 1/4W
R314	401 024 7707	CARBON 100K JA 1/6W
R315	401 024 7707	CARBON 100K JA 1/6W
R316	401 024 7400	CARBON 10K JA 1/6W
R317	401 027 0309	CARBON 47K JA 1/6W
R320	401 024 7707	CARBON 100K JA 1/6W
R321	401 024 8001	CARBON 1M JA 1/6W
R322	401 025 0004	CARBON 120K JA 1/6W
R323	401 024 7707	CARBON 100K JA 1/6W
R325	401 013 6407	CARBON 12K JA 1/4W
R326	401 024 9701	CARBON 12K JA 1/6W
R327	401 025 1902	CARBON 15K JA 1/6W
R328	401 027 5502	CARBON 6.8K JA 1/6W
R329	401 024 7400	CARBON 10K JA 1/6W
R330	401 025 8208	CARBON 22K JA 1/6W
R331	401 025 8208	CARBON 22K JA 1/6W
R332	401 025 4606	CARBON 18K JA 1/6W
R333	401 020 2904	CARBON 47K JA 1/4W
R334	401 027 2600	CARBON 5.6K JA 1/6W
R335	401 027 2600	CARBON 5.6K JA 1/6W
R336	401 024 7400	CARBON 10K JA 1/6W
R337	401 024 7400	CARBON 10K JA 1/6W
R340	401 025 8208	CARBON 22K JA 1/6W
R341	401 025 8208	CARBON 22K JA 1/6W
R342	401 025 4606	CARBON 18K JA 1/6W
R343	401 020 2904	CARBON 47K JA 1/4W
R344	401 027 2600	CARBON 5.6K JA 1/6W
R345	401 027 2600	CARBON 5.6K JA 1/6W
R346	401 024 7400	CARBON 10K JA 1/6W
R347	401 024 7400	CARBON 10K JA 1/6W
R350	401 026 7002	CARBON 3.9K JA 1/6W
R351	401 024 9701	CARBON 12K JA 1/6W
R352	401 024 9701	CARBON 12K JA 1/6W
R354	401 024 7400	CARBON 10K JA 1/6W
R355	401 027 0309	CARBON 47K JA 1/6W
R356	401 027 2600	CARBON 5.6K JA 1/6W
R357	401 025 8208	CARBON 22K JA 1/6W
R360	401 026 7002	CARBON 3.9K JA 1/6W
R361	401 024 9701	CARBON 12K JA 1/6W
R362	401 024 9701	CARBON 12K JA 1/6W
R364	401 024 7400	CARBON 10K JA 1/6W
R365	401 027 0309	CARBON 47K JA 1/6W
R366	401 027 5502	CARBON 6.8K JA 1/6W
R367	401 024 7004	CARBON 1K JA 1/6W
R400	401 024 7707	CARBON 100K JA 1/6W
R401	401 024 7400	CARBON 10K JA 1/6W
R402	401 024 7400	CARBON 10K JA 1/6W
R404	401 016 3809	CARBON 2.2K JA 1/4W
R405	401 027 5908	CARBON 68K JA 1/6W
R406	401 027 0309	CARBON 47K JA 1/6W
R410	401 024 7400	CARBON 10K JA 1/6W
R411	401 016 4806	CARBON 22K JA 1/4W
R412	401 025 4606	CARBON 18K JA 1/6W
R413	401 017 2801	CARBON 27K JA 1/4W
R414	401 024 7707	CARBON 100K JA 1/6W
R415	401 024 7707	CARBON 100K JA 1/6W
R416	401 024 7400	CARBON 10K JA 1/6W
R417	401 027 0309	CARBON 47K JA 1/6W
R420	401 026 4308	CARBON 3.3K JA 1/6W
R421	401 027 0309	CARBON 47K JA 1/6W
R422	401 026 3202	CARBON 30K JA 1/6W
R423	401 025 6501	CARBON 20K JA 1/6W
R424	401 027 3003	CARBON 56K JA 1/6W
R425	401 025 6501	CARBON 20K JA 1/6W
R426	401 025 3807	CARBON 180 JA 1/6W
R427	401 026 1604	CARBON 270K JA 1/6W
R428	401 025 4903	CARBON 180K JA 1/6W
R429	401 024 7400	CARBON 10K JA 1/6W
R450	401 025 8208	CARBON 22K JA 1/6W
R451	401 025 8208	CARBON 22K JA 1/6W
R452	401 027 3003	CARBON 56K JA 1/6W
R453	401 018 1209	CARBON 33 JB 1/4W

MUTE/LOUD SWTCH PCB ASSY

Ref. No.	Part No.	Description
59	141-4-290T-23700	P.C BOARD ASSY, MUTE/LOUD SWITCH
	4-267T-52283	SOCKET, 2P TO FL
S6~8	4-248T-31100	SWITCH, MUTE/LOUD/SURROUND
C580	CC+50471KRYBF	CERAMIC 470PF 50V K R YB
C581	CF+50104JR++F	METAL POLY 0.1MF 50V J R
C590	CC+50681KRYBF	CERAMIC 680PF 50V K R YB
C591	CF+50104JR++F	METAL POLY 0.1MF 50V J R
C680	CC+50471KRYBF	CERAMIC 470PF 50V K R YB
C681	CF+50104JR++F	METAL POLY 0.1MF 50V J R
C690	CC+50681KRYBF	CERAMIC 680PF 50V K R YB
C691	CF+50104JR++F	METAL POLY 0.1MF 50V J R
R580	401 025 7805	CARBON 2.2K JA 1/6W
R581	401 027 2600	CARBON 5.6K JA 1/6W
R582	401 027 0309	CARBON 47K JA 1/6W
R583	401 026 4605	CARBON 33K JA 1/6W
R584	401 024 8001	CARBON 1M JA 1/6W
R585	401 027 2600	CARBON 5.6K JA 1/6W
R586	401 027 0309	CARBON 47K JA 1/6W
R590	401 025 7805	CARBON 2.2K JA 1/6W
R591	401 027 2600	CARBON 5.6K JA 1/6W

PARTS LIST

Ref. No.	Part No.	Description
R592	401 027 0309	CARBON 47K JA 1/6W
R593	401 026 4605	CARBON 33K JA 1/6W
R594	401 024 8001	CARBON 1M JA 1/6W
R595	401 027 2600	CARBON 5.6K JA 1/6W
R680	401 025 7805	CARBON 2.2K JA 1/6W
R681	401 027 2600	CARBON 5.6K JA 1/6W
R682	401 027 0309	CARBON 47K JA 1/6W
R683	401 026 4605	CARBON 33K JA 1/6W
R684	401 024 8001	CARBON 1M JA 1/6W
R685	401 027 2600	CARBON 5.6K JA 1/6W
R686	401 027 0309	CARBON 47K JA 1/6W
R690	401 016 3809	CARBON 2.2K JA 1/4W
R691	401 027 2600	CARBON 5.6K JA 1/6W
R692	401 027 0309	CARBON 47K JA 1/6W
R693	401 026 4605	CARBON 33K JA 1/6W
R694	401 024 8001	CARBON 1M JA 1/6W
R695	401 027 2600	CARBON 5.6K JA 1/6W

VOLUME PCB ASSY

Ref. No.	Part No.	Description
60	141-4-290T-23800	P.C BOARD ASSY, VOLUME
	4-267T-42200	SOCKET, 3P TO MAIN
	4-267T-42300	SOCKET, 3P TO REAR
VR580	4-220T-44000	VARIABLE RESISTOR, 100KW REAR
VR581	4-220T-43900	VARIABLE RESISTOR, 100KB MAIN
VR582	4-220T-43900	VARIABLE RESISTOR, 100KB MAIN
R698	401 021 1906	CARBON 560 JA 1/4W
R699	401 013 5301	CARBON 1.2K JA 1/4W

FUNCTION SWITCH PCB ASSY

Ref. No.	Part No.	Description
61	141-4-290T-23900	P.C BOARD ASSY, FUNCTION SWITCH
	4-267T-52775	SOCKET, 7P TO FUNCTION
S10	4-238T-70873	SWITCH, TUNER
S11	4-238T-70873	SWITCH, CD
S12	4-238T-70873	SWITCH, TV/AUX 1
S13	4-238T-70873	SWITCH, VCR/AUX 2
S14	4-238T-70873	SWITCH, PHONO
S15	4-238T-70873	SWITCH, TAPE MONITOR

BALANCE PCB ASSY

Ref. No.	Part No.	Description
62	141-4-290T-24000	P.C BOARD, BALANCE
VR451	4-220T-42100	VARIABLE RESISTOR, 250KG BALANCE

INPUT/DELAY PCB ASSY

Ref. No.	Part No.	Description
63	141-4-290T-24100	P.C BOARD ASSY, INPUT/DELAY
VR300	4-220T-43700	VARIABLE RESISTOR, 250KW INPUT BALANCE
VR450	4-220T-43600	VARIABLE RESISTOR, 50KB DELAY
R307	401 026 9907	CARBON 4.7K JA 1/6W
R407	401 026 9907	CARBON 4.7K JA 1/6W
R452	401 025 0004	CARBON 120K JA 1/6W

PL LEFT PCB ASSY

Ref. No.	Part No.	Description
64	141-4-290T-24200	P.C BOARD ASSY, PL LEFT
	4-612T-17500	LAMP 12V 70MA
	141-2-329T-09300	REFLECTOR
	4-267T-52275	SOCKET, 2P TP P.T.

PL RIGHT PCB ASSY

Ref. No.	Part No.	Description
65	141-4-290T-24300	P.C BOARD ASSY, PL RIGHT
	4-612T-17500	LAMP 12V 70MA
	141-2-329T-09300	REFLECTOR

GREEM LED PCB ASSY

Ref. No.	Part No.	Description
66	141-4-290T-24400	P.C BOARD ASSY, GREEN LED
D699	SLSLP271EU+GR	LED SLP271EU GREEN

RED LED PCB ASSY

Ref. No.	Part No.	Description
67	141-4-290T-24500	P.C BOARD ASSY, RED LED
D698	SLSLP171E++RE	LED SLP171E RED

FL 1 PCB ASSY

Ref. No.	Part No.	Description
68	141-4-290T-35500	P.C BOARD ASSY, FL 1
	4-985T-04100	FLUORESCENT DISPLAY
	141-2-322T-42000	SHIELD PLATE
	4-267T-52284	SOCKET, 2P
	4-267T-52485	SOCKET, 4P
RA190	4-221T-10986	RESISTOR 9P 22K J
RA191	4-221T-10986	RESISTOR 9P 22K J
RA192	4-221T-10486	RESISTOR 4P 22K J
IC190	SILC4016B++++	IC LC4016B DIP14
IC191	SILC4016B++++	IC LC4016B DIP14
IC192	SIMC14022B+++	IC MC14022B
or	SITC4022B++++	IC TC4022B DIP18
IC193	SIBA6146+++++	IC BA6146
IC194	SILB1290+++++	IC LB1290 DIP18
IC195	SILB1292+++++	IC LB1292 DIP16
IC196	SILB1292+++++	IC LB1292 DIP16
D100	SDGMA01+++++T	DIODE GMA01
D101	SDGMA01+++++T	DIODE GMA01
D102	SDGMA01+++++T	DIODE GMA01
D103	SDGMA01+++++T	DIODE GMA01
D104	SDGMA01+++++T	DIODE GMA01
D105	SDGMA01+++++T	DIODE GMA01
D106	SDGMA01+++++T	DIODE GMA01
D107	SDGMA01+++++T	DIODE GMA01
D108	SDGMA01+++++T	DIODE GMA01
D109	SDDS442+X+++T	DIODE DS442 X
D110	SDGMA01+++++T	DIODE GMA01
D111	SDDS442+X+++T	DIODE DS442 X
D112	SDDS442+X+++T	DIODE DS442 X
D113	SDGMA01+++++T	DIODE GMA01
D114	SDGMA01+++++T	DIODE GMA01
D115	SDGMA01+++++T	DIODE GMA01
D116	SDGMA01+++++T	DIODE GMA01
D117	SDGMA01+++++T	DIODE GMA01
D118	SDDS442+X+++T	DIODE DS442 X
D119	SDDS442+X+++T	DIODE DS442 X
D120	SDGMA01+++++T	DIODE GMA01
D121	SDDS442+X+++T	DIODE DS442 X
D122	SDDS442+X+++T	DIODE DS442 X

PARTS LIST

Ref. No.	Part No.	Description
D123	SDDS442+X+++T	DIODE DS442 X
D124	SDGMA01+++++T	DIODE GMA01
D125	SDDS442+X+++T	DIODE DS442 X
D126	SDGMA01+++++T	DIODE GMA01
D127	SDDS442+X+++T	DIODE DS442 X
D128	SDDS442+X+++T	DIODE DS442 X
D129	SDDS442+X+++T	DIODE DS442 X
D130	SDGMA01+++++T	DIODE GMA01
D131	SDDS442+X+++T	DIODE DS442 X
D132	SDGMA01+++++T	DIODE GMA01
D133	SDDS442+X+++T	DIODE DS442 X
D134	SDGMA01+++++T	DIODE GMA01
D135	SDGMA01+++++T	DIODE GMA01
D136	SDGMA01+++++T	DIODE GMA01
D137	SDGMA01+++++T	DIODE GMA01
D138	SDDS442+X+++T	DIODE DS442 X
D139	SDGMA01+++++T	DIODE GMA01
D140	SDDS442+X+++T	DIODE DS442 X
D141	SDDS442+X+++T	DIODE DS442 X
D142	SDDS442+X+++T	DIODE DS442 X
D143	SDDS442+X+++T	DIODE DS442 X
D149	SDGZA033X++++	ZENER DIODE GZA3.3X
R190	401 027 0309	CARBON 47K JA 1/6W
R191	401 025 4200	CARBON 1.8K JA 1/6W
R192	401 024 7400	CARBON 10K JA 1/6W
R193	401 025 8208	CARBON 22K JA 1/6W
R194	401 025 8208	CARBON 22K JA 1/6W
R195	401 025 8208	CARBON 22K JA 1/6W
R196	401 021 0701	CARBON 56 JA 1/4W
R197	401 021 0701	CARBON 56 JA 1/4W

FL 2 PCB ASSY

Ref. No.	Part No.	Description
67	141-4-290T-35600	P.C BOARD ASSY, FL 2
	4-267T-52386	SOCKET, 3P TO MAIN
	4-236T-32372	PLUG, 2P
	4-236T-32276	PLUG, 6P
IC100	SILA6458D++++	IC LA6458D DIP08
IC101	SILA6458D++++	IC LA6458D DIP08
IC102	SILA6458D++++	IC LA6458D DIP08
IC103	SILA6458D++++	IC LA6458D DIP08
IC104	SILC4011B++++	IC LC4011B DIP14
Q150	STA608+G++++1	TR 2SA608 G SP
Q151	STA608+G++++1	TR 2SA608 G SP
Q152	STA608+G++++1	TR 2SA608 G SP
Q153	STA608+G++++1	TR 2SA608 G SP
Q154	STA608+G++++1	TR 2SA608 G SP
Q155	STA608+G++++1	TR 2SA608 G SP
Q158	STA608+G++++1	TR 2SA608 G SP
D150	SDGMA01+++++T	DIODE GMA01
D151	SDGMA01+++++T	DIODE GMA01
D153	SDGMA01+++++T	DIODE GMA01
D154	SDGMA01+++++T	DIODE GMA01
D155	SDGMA01+++++T	DIODE GMA01
D180	SDGMA01+++++T	DIODE GMA01
D181	SDGMA01+++++T	DIODE GMA01
D182	SDGMA01+++++T	DIODE GMA01
D183	SDGMA01+++++T	DIODE GMA01
D184	SDGMA01+++++T	DIODE GMA01
D185	SDGMA01+++++T	DIODE GMA01
D186	SDGMA01+++++T	DIODE GMA01
C100	CE+50105MR++F	ELECT 1MF 50V M R
C105	CB+25473KRXRF	BC CON 0.047MF 25V K R XR
C106	CB+25473KRXRF	BC CON 0.047MF 25V K R XR
C107	CE+16106MR++F	ELECT 10MF 16V M R
C108	CE+50105MR++F	ELECT 1MF 50V M R
C110	CB+25183KRXRF	BC CON 0.018MF 25V K R XR
C111	CB+25183KRXRF	BC CON 0.018MF 25V K R XR
C112	CE+16106MR++F	ELECT 10MF 16V M R
C113	CE+50105MR++F	ELECT 1MF 50V M R
C115	CB+25682KRXRF	BC CON 0.0068MF 25V K R XR
C116	CB+25682KRXRF	BC CON 0.0068MF 25V K R XR
C117	CE+16106MR++F	ELECT 10MF 16V M R
C118	CE+50105MY++S	ELECT 1MF 50V M Y
C120	CB+25272KRXRF	BC CON 0.0027MF 25V K R XR
C121	CB+25272KRXRF	BC CON 0.0027MF 25V K R XR
C122	CE+16106MR++F	ELECT 10MF 16V M R
C123	CE+50105MY++S	ELECT 1MF 50V M Y
C125	CB+25123KRXRF	BC CON 0.012MF 25V K R XR
C126	CB+25123KRXRF	BC CON 0.012MF 25V K R XR
C127	CE+16106MR++F	ELECT 10MF 16V M R
C128	CE+50105MR++F	ELECT 1MF 50V M R
C130	CB+25472KRXRF	BC CON 0.0047MF 25V K R XR
C131	CB+25472KRXRF	BC CON 0.0047MF 25V K R XR
C132	CE+16106MR++F	ELECT 10MF 16V M R
C133	CE+50105MR++F	ELECT 1MF 50V M R
C135	CB+25472KRXRF	BC CON 0.0047MF 25V K R XR
C136	CB+25392KRXRF	BC CON 0.0039MF 25V K R XR
C137	CE+16106MR++F	ELECT 10MF 16V M R
C138	CE+50105MR++F	ELECT 1MF 50V M R
C140	CB+25392JRXRF	BC CON 0.0039MF 25V J R XR
C142	CE+16337MRHAF	ELECT 330MF 16V M R HA F
C145	CE+16337MRHAF	ELECT 330MF 16V M R HA F
R100	401 027 0309	CARBON 47K JA 1/6W
R101	401 027 2600	CARBON 5.6K JA 1/6W
R102	401 027 0309	CARBON 47K JA 1/6W
R105	401 024 7707	CARBON 100K JA 1/6W
R106	401 026 7002	CARBON 3.9K JA 1/6W
R107	401 024 8001	CARBON 1M JA 1/6W
R108	401 024 7400	CARBON 10K JA 1/6W
R110	401 024 7707	CARBON 100K JA 1/6W
R111	401 026 7002	CARBON 3.9K JA 1/6W
R112	401 024 8001	CARBON 1M JA 1/6W
R113	401 024 7400	CARBON 10K JA 1/6W
R115	401 024 7707	CARBON 100K JA 1/6W
R116	401 026 4308	CARBON 3.3K JA 1/6W
R117	401 024 8001	CARBON 1M JA 1/6W
R118	401 024 7400	CARBON 10K JA 1/6W
R120	401 024 7707	CARBON 100K JA 1/6W
R121	401 026 4308	CARBON 3.3K JA 1/6W
R122	401 024 8001	CARBON 1M JA 1/6W
R123	401 024 7400	CARBON 10K JA 1/6W
R125	401 024 7400	CARBON 10K JA 1/6W
R126	401 026 3905	CARBON 330 JA 1/6W
R127	401 024 7707	CARBON 100K JA 1/6W
R128	401 024 7400	CARBON 10K JA 1/6W
R130	401 024 7400	CARBON 10K JA 1/6W
R131	401 026 3905	CARBON 330 JA 1/6W
R132	401 024 7707	CARBON 100K JA 1/6W
R133	401 024 7400	CARBON 10K JA 1/6W
R135	401 026 7002	CARBON 3.9K JA 1/6W
R136	401 025 1308	CARBON 150 JA 1/6W
R137	401 027 0309	CARBON 47K JA 1/6W
R138	401 024 7400	CARBON 10K JA 1/6W
R140	401 024 7400	CARBON 10K JA 1/6W
R141	401 025 2305	CARBON 150K JA 1/6W
R142	401 019 6203	CARBON 4.7 JA 1/4W
R143	401 019 6203	CARBON 4.7 JA 1/4W
R150	401 024 7400	CARBON 10K JA 1/6W
R151	401 026 4308	CARBON 3.3K JA 1/6W
R153	401 025 8208	CARBON 22K JA 1/6W
R154	401 024 7400	CARBON 10K JA 1/6W
R155	401 026 4308	CARBON 3.3K JA 1/6W
R156	401 025 8208	CARBON 22K JA 1/6W
R157	401 024 7400	CARBON 10K JA 1/6W
R158	401 026 4308	CARBON 3.3K JA 1/6W
R159	401 025 8208	CARBON 22K JA 1/6W
R160	401 024 7400	CARBON 10K JA 1/6W
R161	401 026 4308	CARBON 3.3K JA 1/6W
R162	401 025 8208	CARBON 22K JA 1/6W
R163	401 024 7400	CARBON 10K JA 1/6W
R164	401 026 4308	CARBON 3.3K JA 1/6W
R165	401 025 8208	CARBON 22K JA 1/6W
R166	401 024 7400	CARBON 10K JA 1/6W

PARTS LIST

Ref. No.	Part No.	Description
R167	401 026 4308	CARBON 3.3K JA 1/6W
R168	401 025 8208	CARBON 22K JA 1/6W
R175	401 024 7400	CARBON 10K JA 1/6W
R176	401 024 7400	CARBON 10K JA 1/6W
R178	401 024 7400	CARBON 10K JA 1/6W
R179	401 024 7400	CARBON 10K JA 1/6W
R180	401 024 7400	CARBON 10K JA 1/6W
R181	401 024 7400	CARBON 10K JA 1/6W
R182	401 024 7400	CARBON 10K JA 1/6W

MAIN AMP PCB ASSY

Ref. No.	Part No.	Description
70	141-4-290T-38501	P.C BOARD ASSY, MAIN AMP
78	4-267T-39473	SOCKET, 5P TUNER
79	4-267T-42100	SOCKET, 7P + 8P, G.EQ.
	4-237T-11483	TERMINAL BOARD, SPEAKER 8P
	4-232T-06300	RELAY
or	4-232T-08000	RELAY
	4-209T-01174	POZISTOR 110° C
	141-2-368T-18700	HEAT SINK
	141-2-381T-04202	BRACKET, FUSE
	4-267T-19800	SOCKET, CD SYNCHRO REC
	4-267T-52577	SOCKET, 5P
	4-236T-32273	PLUG, 3P
	4-236T-32273	PLUG, 3P
	4-236T-10200	PLUG, 3P
	4-236T-10272	PLUG, 5P
	4-236T-10274	PLUG, 7P
L701	4-265T-05800	V.H.F COIL
L801	4-265T-05800	V.H.F COIL
SVR701	4-222T-62078	SEMI-FIXED RESISTOR, 1.5KB
SVR801	4-222T-62078	SEMI-FIXED RESISTOR, 1.5KB
IC701	SILA6458S++++	IC LA6458S SIP9
IC901	⚠ SINJM7815A+++	IC NJM7815A
IC902	⚠ SINJM7915A+++	IC NJM7915A SIP3
IC905	⚠ SIICPN10+++++	IC ICP-N10
IC906	⚠ SIICPN10+++++	IC ICP-N10
Q701	STD1468S+++++	TR 2SD1468 S
Q702	STA1016G++++T	TR 2SA1016 G T NP
Q703	STA1016G++++T	TR 2SA1016 G T NP
Q704	STA1016G++++T	TR 2SA1016 G T NP
Q705	STC2911S+++++	TR 2SC2911 S
Q706	STC2911S+++++	TR 2SC2911 S
Q707	STA1209S+++++	TR 2SA1209 S
Q708	STD612+F+++++	TR 2SD612 F
Q709	⚠ STC2344E+++++	TR 2SC2344 E
Q710	⚠ STA1011E+++++	TR 2SA1011 E
Q711	⚠ STC3280O+++++	TR 2SC3280 O
Q712	⚠ STA1301O+++++	TR 2SA1301 O
Q801	STD1468S+++++	TR 2SD1468 S
Q802	STA1016G++++T	TR 2SA1016 G T NP
Q803	STA1016G++++T	TR 2SA1016 G T NP
Q804	STA1016G++++T	TR 2SA1016 G T NP
Q805	STC2911S+++++	TR 2SC2911 S
Q806	STC2911S+++++	TR 2SC2911 S
Q807	STA1209S+++++	TR 2SA1209 S
Q808	STD612+F+++++	TR 2SD612 F
Q809	⚠ STC2344E+++++	TR 2SC2344 E
Q810	⚠ STA1011E+++++	TR 2SA1011 E
Q811	⚠ STC3280O+++++	TR 2SC3280 O
Q812	⚠ STA1301O+++++	TR 2SA1301 O
Q900	STD438+F+++++	TR 2SD438 F
Q901	STC536+G+++UB	TR 2SC536 G AUD B SP
Q970	STA608+G++++T	TR 2SA608 G
Q971	STC536+G+++UB	TR 2SC536 G AUD B SP
Q972	STC536+G+++UB	TR 2SC536 G AUD B SP
D701	SDDS442+X+++T	DIODE DS442 X
D702	SDDS442+X+++T	DIODE DS442 X
D703	SDDS442+X+++T	DIODE DS442 X
D801	SDDS442+X+++T	DIODE DS442 X
D802	SDDS442+X+++T	DIODE DS442 X
D803	SDDS442+X+++T	DIODE DS442 X
D901	⚠ SDDBA60+C++++	DIODE DBA60 C
D902	⚠ SDGP15+LD++++	DIODE GP15 D L FORMING
D903	⚠ SDGP15+LD++++	DIODE GP15 D L FORMING
D904	⚠ SDGP15+LD++++	DIODE GP15 D L FORMING
D905	⚠ SDGP15+LD++++	DIODE GP15 D L FORMING
D911	SDGMA01+++++T	DIODE GMA01
D912	SDGMA01+++++T	DIODE GMA01
D970	SDGMA01+++++T	DIODE GMA01
D972	SDGMA01+++++T	DIODE GMA01
D973	SDGMA01+++++T	DIODE GMA01
D974	SDGMA01+++++T	DIODE GMA01
D975	SDMTZ047B+++T	ZENER DIODE MTZ4.7B
D976	SDGMA01+++++T	DIODE GMA01
D977	SDGZA150Y++++	ZENER DIODE GZA15Y
C7	CM+50103KR++F	MYLAR 0.01MF 50V K R
C8	CM+50103KR++F	MYLAR 0.01MF 50V K R
C9	CM+50103KR++F	MYLAR 0.01MF 50V K R
C10	CM+50103KR++F	MYLAR 0.01MF 50V K R
C11	CM+50562KR++F	MYLAR 0.0056MF 50V K R
C12	CM+50562KR++F	MYLAR 0.0056MF 50V K R
C14	CN100103JM++S	P P CON 0.01T 100V J M
C15	CC+50470KDSLS	CERAMIC 47PF 50V K D SL
C16	CC+50470KDSLS	CERAMIC 47PF 50V K D SL
C17	CC+50470KDSLS	CERAMIC 47PF 50V K D SL
C18	CC+50470KDSLS	CERAMIC 47PF 50V K D SL
C19	CC+50470KDSLS	CERAMIC 47PF 50V K D SL
C20	CC+50470KDSLS	CERAMIC 47PF 50V K D SL
C21	CC+50103ZD++S	CERAMIC 0.01MF 50V Z D
C22	CC+50103ZD++S	CERAMIC 0.01MF 50V Z D
C701	CE+50105MR++F	ELECT 1MF 50V M R
C702	CC+50181KRSLF	CERAMIC 180PF 50V K R SL
C703	CM+50471KR++F	MYLAR 470PF 50V K R
C704	CC+50080KRSLF	CERAMIC 8PF 50V K R SL
C705	CE+10107MR++F	ELECT 100MF 10V M R
C706	CC500330KRSLF	CERAMIC 33PF 500V K R SL F
C707	CC500101KRSLF	CERAMIC 100PF 500V K R SLF
C708	CC500101KRSLF	CERAMIC 100PF 500V K R SLF
C709	CM+50473KR++F	MYLAR 0.047MF 50V K R
C771	CC+50221KRYBF	CERAMIC 220PF 50V K R YB
C772	CC+50221KRYBF	CERAMIC 220PF 50V K R YB
C773	CC+50221KRYBF	CERAMIC 220PF 50V K R YB
C774	CC+50221KRYBF	CERAMIC 220PF 50V K R YB
C775	CC+50221KRYBF	CERAMIC 220PF 50V K R YB
C801	CE+50105MR++F	ELECT 1MF 50V M R
C802	CC+50181KRSLF	CERAMIC 180PF 50V K R SL
C803	CM+50471KR++F	MYLAR 470PF 50V K R
C804	CC+50080KRSLF	CERAMIC 8PF 50V K R SL
C805	CE+10107MR++F	ELECT 100MF 10V M R
C806	CC500330KRSLF	CERAMIC 33PF 500V K R SL F
C807	CC500101KRSLF	CERAMIC 100PF 500V K R SLF
C808	CC500101KRSLF	CERAMIC 100PF 500V K R SLF
C809	CM+50473KR++F	MYLAR 0.047MF 50V K R
C871	CC+50221KRYBF	CERAMIC 220PF 50V K R YB
C872	CC+50221KRYBF	CERAMIC 220PF 50V K R YB
C873	CC+50221KRYBF	CERAMIC 220PF 50V K R YB
C874	CC+50221KRYBF	CERAMIC 220PF 50V K R YB
C875	CC+50221KRYBF	CERAMIC 220PF 50V K R YB
C901	4-223T-13771	CAPACITOR 0.022MF 200V
C902	4-223T-13771	CAPACITOR 0.022MF 200V
C903	⚠ 4-163T-11600	ELECT 80V 8200MF
C904	⚠ 4-163T-11600	ELECT 80V 8200MF
C905	CM+50103KR++F	MYLAR 0.01MF 50V K R
C906	CM+50103KR++F	MYLAR 0.01MF 50V K R
C907	CE+35228MY++S	ELECT 2200MF 35V M Y
C908	CE+35228MY++S	ELECT 2200MF 35V M Y
C909	CE+16106MR++F	ELECT 10MF 16V M R
C910	CE+16106MR++F	ELECT 10MF 16V M R
C918	4-163T-11779	ELECT 100V 100MF
C919	4-163T-11779	ELECT 100V 100MF
C920	CW+50105MVNPS	NONPOLAR 1MF 50V M V NP
C970	CE+10227MR++F	ELECT 220MF 10V M R
C971	CE+50105MR++F	ELECT 1MF 50V M R

PARTS LIST

Ref. No.	Part No.	Description
C972	CE+50105MR++F	ELECT 1MF 50V M R
C973	CE+50105MR++F	ELECT 1MF 50V M R
C974	CE+16106MR++F	ELECT 10MF 16V M R
C975	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF
R2	401 012 3407	CARBON 10 JA 1/4W
R3	401 012 3407	CARBON 10 JA 1/4W
R700	401 024 7004	CARBON 1K JA 1/6W
R701	401 024 7707	CARBON 100K JA 1/6W
R702	401 027 5908	CARBON 68K JA 1/6W
R703	401 020 2904	CARBON 47K JA 1/4W
R704	401 020 0801	CARBON 470 JA 1/4W
R705	401 020 2003	CARBON 4.7K JA 1/4W
R706	401 020 2003	CARBON 4.7K JA 1/4W
R707	401 018 2800	CARBON 330 JA 1/4W
R708	401 016 4806	CARBON 22K JA 1/4W
R709	401 016 2604	CARBON 220 JA 1/4W
R710	401 016 9702	CARBON 27 JA 1/4W
R711	401 016 9702	CARBON 27 JA 1/4W
R712	401 022 3107	CARBON 6.8K JA 1/4W
R713	401 022 3107	CARBON 6.8K JA 1/4W
R714	401 016 2307	CARBON 220 JB 1/4W
R715	401 017 2801	CARBON 27K JA 1/4W
R716	401 014 4105	CARBON 1.5K JA 1/4W
R717	401 017 1804	CARBON 2.7K JA 1/4W
R718	⚠ 401 009 9009	CARBON 390 JB 1/2W
R719	⚠ 4-221T-03600	RESISTOR 0.47/5W X 2
R720	401 058 1108	OXIDE-MT 10 JA 1W
R721	401 062 3907	OXIDE-MT 5.6 JA 1W
R723	401 012 5708	CARBON 1K JA 1/4W
R724	401 024 7004	CARBON 1K JA 1/6W
R725	401 024 7004	CARBON 1K JA 1/6W
R726	401 024 7004	CARBON 1K JA 1/6W
R727	401 024 7004	CARBON 1K JA 1/6W
R728	401 025 8703	CARBON 220K JA 1/6W
R729	401 025 8703	CARBON 220K JA 1/6W
R730	401 025 8703	CARBON 220K JA 1/6W
R731	401 025 8703	CARBON 220K JA 1/6W
R732	401 025 8703	CARBON 220K JA 1/6W
R800	401 024 7004	CARBON 1K JA 1/6W
R801	401 024 7707	CARBON 100K JA 1/6W
R802	401 027 5908	CARBON 68K JA 1/6W
R803	401 020 2904	CARBON 47K JA 1/4W
R804	401 020 0801	CARBON 470 JA 1/4W
R805	401 020 2003	CARBON 4.7K JA 1/4W
R806	401 020 2003	CARBON 4.7K JA 1/4W
R807	401 018 2800	CARBON 330 JA 1/4W
R808	401 016 4806	CARBON 22K JA 1/4W
R809	401 016 2604	CARBON 220 JA 1/4W
R810	401 016 9702	CARBON 27 JA 1/4W
R811	401 016 9702	CARBON 27 JA 1/4W
R812	401 022 3107	CARBON 6.8K JA 1/4W
R813	401 022 3107	CARBON 6.8K JA 1/4W
R814	401 016 2307	CARBON 220 JB 1/4W
R815	401 017 2801	CARBON 27K JA 1/4W
R816	401 014 4105	CARBON 1.5K JA 1/4W
R817	401 017 1804	CARBON 2.7K JA 1/4W
R818	⚠ 401 009 9009	CARBON 390 JB 1/2W
R819	⚠ 4-221T-03600	RESISTOR 0.47/5W X 2
R820	401 058 1108	OXIDE-MT 10 JA 1W
R821	401 062 3907	OXIDE-MT 5.6 JA 1W
R823	401 024 7004	CARBON 1K JA 1/6W
R824	401 024 7004	CARBON 1K JA 1/6W
R825	401 024 7004	CARBON 1K JA 1/6W
R826	401 024 7004	CARBON 1K JA 1/6W
R827	401 024 7004	CARBON 1K JA 1/6W
R828	401 025 8703	CARBON 220K JA 1/6W
R829	401 025 8703	CARBON 220K JA 1/6W
R830	401 025 8703	CARBON 220K JA 1/6W
R831	401 025 8703	CARBON 220K JA 1/6W
R832	401 025 8703	CARBON 220K JA 1/6W
R900	401 058 2501	OXIDE-MT 100 JA 1W
R901	401 024 7400	CARBON 10K JA 1/6W
R902	401 025 1902	CARBON 15K JA 1/6W
R904	401 018 1209	CARBON 33 JB 1/4W
R905	401 018 1209	CARBON 33 JB 1/4W
R906	401 024 7707	CARBON 100K JA 1/6W
R970	401 027 0309	CARBON 47K JA 1/6W
R971	401 027 0309	CARBON 47K JA 1/6W
R972	⚠ 401 066 5204	OXIDE-MT 22 JA 2W
R973	⚠ 401 067 8204	OXIDE-MT 39 JA 2W
R974	401 017 2801	CARBON 27K JA 1/4W
R975	401 025 7805	CARBON 2.2K JA 1/6W
R976	401 027 3003	CARBON 56K JA 1/6W
R977	401 026 1307	CARBON 27K JA 1/6W
R978	401 026 1307	CARBON 27K JA 1/6W
R979	401 024 7400	CARBON 10K JA 1/6W
R980	401 027 0309	CARBON 47K JA 1/6W
R981	401 024 7400	CARBON 10K JA 1/6W
R982	401 024 6700	CARBON 100 JA 1/6W
R983	401 020 1709	CARBON 4.7K JB 1/4W
R984	401 020 1709	CARBON 4.7K JB 1/4W

REAR AMP PCB ASSY

Ref. No.	Part No.	Description
71	141-4-290T-38600	P.C BOARD ASSY, REAR AMP
	4-236T-32373	PLUG, 3P
SVR370	4-222T-73595	SEMI-FIXED RESISTOR, 150B
SVR470	4-222T-73595	SEMI-FIXED RESISTOR, 150B
Q370	STD1468S+++++	TR 2SD1468 S
Q371	STA1038S++++T	TR 2SA1038 S T NP
Q372	STA1016G++++T	TR 2SA1016 G T NP
Q373	STA1016G++++T	TR 2SA1016 G T NP
Q374	STA1016G++++T	TR 2SA1016 G T NP
Q375	STC2362G+++++	TR 2SC2362 G
Q376	STC2274E+++K+	TR 2SC2274 E K
Q377	STA984+E+++K+	TR 2SA984 E K
Q378	STC3179Y+++++	TR 2SC3179 Y
Q379	STA1262Y+++++	TR 2SA1262 Y
Q470	STD1468S+++++	TR 2SD1468 S
Q471	STA1038S++++T	TR 2SA1038 S T NP
Q472	STA1016G++++T	TR 2SA1016 G T NP
Q473	STA1016G++++T	TR 2SA1016 G T NP
Q474	STA1016G++++T	TR 2SA1016 G T NP
Q475	STC2362G+++++	TR 2SC2362 G
Q476	STC2274E+++K+	TR 2SC2274 E K
Q477	STA984+E+++K+	TR 2SA984 E K
Q478	STC3179Y+++++	TR 2SC3179 Y
Q479	STA1262Y+++++	TR 2SA1262 Y
D370	SDGMA01+++++T	DIODE GMA01
D371	SDGMA01+++++T	DIODE GMA01
D372	SDGMA01+++++T	DIODE GMA01
D373	SDGMA01+++++T	DIODE GMA01
D374	SDGMA01+++++T	DIODE GMA01
D375	SDGMA01+++++T	DIODE GMA01
D472	SDGMA01+++++T	DIODE GMA01
D473	SDGMA01+++++T	DIODE GMA01
D474	SDGMA01+++++T	DIODE GMA01
D475	SDGMA01+++++T	DIODE GMA01
C1	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C2	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C3	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF
C4	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF
C5	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C370	CC+50471KRSLF	CERAMIC 470PF 50V K R SL
C371	CE+50105MR++F	ELECT 1MF 50V M R
C372	CE+10107MR++F	ELECT 100MF 10V M R
C373	CE+10476MR++F	ELECT 47MF 10V M R
C374	CC+50680KRSLF	CERAMIC 68PF 50V K R SL
C375	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF
C376	CM+50473MR++F	MYLAR 0.047MF 50V M R
C377	CE+35227MY++S	ELECT 220MF 35V M Y
C378	CE+35227MY++S	ELECT 220MF 35V M Y
C470	CC+50471KRSLF	CERAMIC 470PF 50V K R SL
C471	CE+50105MR++F	ELECT 1MF 50V M R

PARTS LIST

Ref. No.	Part No.	Description
C472	CE+10107MR++F	ELECT 100MF 10V M R
C473	CE+10476MR++F	ELECT 47MF 10V M R
C474	CC+50680KRSLF	CERAMIC 68PF 50V K R SL
C475	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF
C476	CM+50473MR++F	MYLAR 0.047MF 50V M R
R370	401 024 7004	CARBON 1K JA 1/6W
R371	401 027 5908	CARBON 68K JA 1/6W
R372	401 025 1605	CARBON 1.5K JA 1/6W
R373	401 027 2303	CARBON 560 JA 1/6W
R374	401 027 5205	CARBON 680 JA 1/6W
R375	401 024 7004	CARBON 1K JA 1/6W
R376	401 022 4104	CARBON 68K JA 1/4W
R377	401 025 1308	CARBON 150 JA 1/6W
R378	401 026 9303	CARBON 47 JA 1/6W
R379	401 020 0405	CARBON 470 JB 1/4W
R380	401 057 5206	OXIDE-MT 0.47 JA 1W
R381	401 057 5206	OXIDE-MT 0.47 JA 1W
R382	401 010 5601	CARBON 5.6 JB 1/2W
R383	401 023 0303	CARBON 82 JB 1/4W
R384	401 023 0303	CARBON 82 JB 1/4W
R385	401 025 8208	CARBON 22K JA 1/6W
R470	401 024 7004	CARBON 1K JA 1/6W
R471	401 027 5908	CARBON 68K JA 1/6W
R472	401 025 1605	CARBON 1.5K JA 1/6W
R473	401 027 2303	CARBON 560 JA 1/6W
R474	401 027 5205	CARBON 680 JA 1/6W
R475	401 024 7004	CARBON 1K JA 1/6W
R476	401 022 4104	CARBON 68K JA 1/4W
R477	401 025 1308	CARBON 150 JA 1/6W
R478	401 026 9303	CARBON 47 JA 1/6W
R479	401 020 0405	CARBON 470 JB 1/4W
R480	401 057 5206	OXIDE-MT 0.47 JA 1W
R481	401 057 5206	OXIDE-MT 0.47 JA 1W
R482	401 010 5601	CARBON 5.6 JB 1/2W

SPEAKER SWITCH PCB ASSY

Ref. No.	Part No.	Description
72	141-4-290T-38700	P.C BOARD ASSY, SPEAKER SWITCH
	4-240T-63071	SOCKET, HEADPHONE
	4-236T-32275	PLUG, 5P
S5	4-248T-30900	SWITCH, SPEAKER
Q770	STD1468S+++++	TR 2SD1468 S
Q870	STD1468S+++++	TR 2SD1468 S
C770	CC+50221KRSLF	CERAMIC 220PF 50V K R SL
C870	CC+50221KRSLF	CERAMIC 220PF 50V K R SL
R722	401 069 2804	OXIDE-MT 680 JA 2W
R770	401 027 5502	CARBON 6.8K JA 1/6W
R771	401 021 0701	CARBON 56 JA 1/4W
R822	401 069 2804	OXIDE-MT 680 JA 2W
R870	401 027 5502	CARBON 6.8K JA 1/6W
R871	401 021 0701	CARBON 56 JA 1/4W

P.T. SECONDARY PCB ASSY

Ref. No.	Part No.	Description
73	141-4-290T-39000	P.C BOARD ASSY, P.T. SECONDARY
	4-236T-32372	PLUG, 2P
D907	⚠ SDDSF10+C+++T	DIODE DSF10 C T
D908	⚠ SDDSF10+C+++T	DIODE DSF10 C T
D909	⚠ SDDSF10+C+++T	DIODE DSF10 C T
D910	⚠ SDDSF10+C+++T	DIODE DSF10 C T
C911	CE+35228MY++S	ELECT 2200MF 35V M Y
C912	CF+50104JR++F	METAL POLY 0.1MF 50V J R
C921	CW+50105MVNPS	NONPOLAR 1MF 50V M V NP
R903	⚠ 401 057 5206	OXIDE-MT 0.47 JA 1W
R907	⚠ 402 004 3801	FUSIBLE RES 1 J- 1/4W
R908	⚠ 402 004 5300	FUSIBLE RES 2.2 J- 1/4W

Ref. No.	Part No.	Description
R964	⚠ 401 064 1307	OXIDE-MT 0.33 JA 2W
R965	⚠ 401 064 1307	OXIDE-MT 0.33 JA 2W

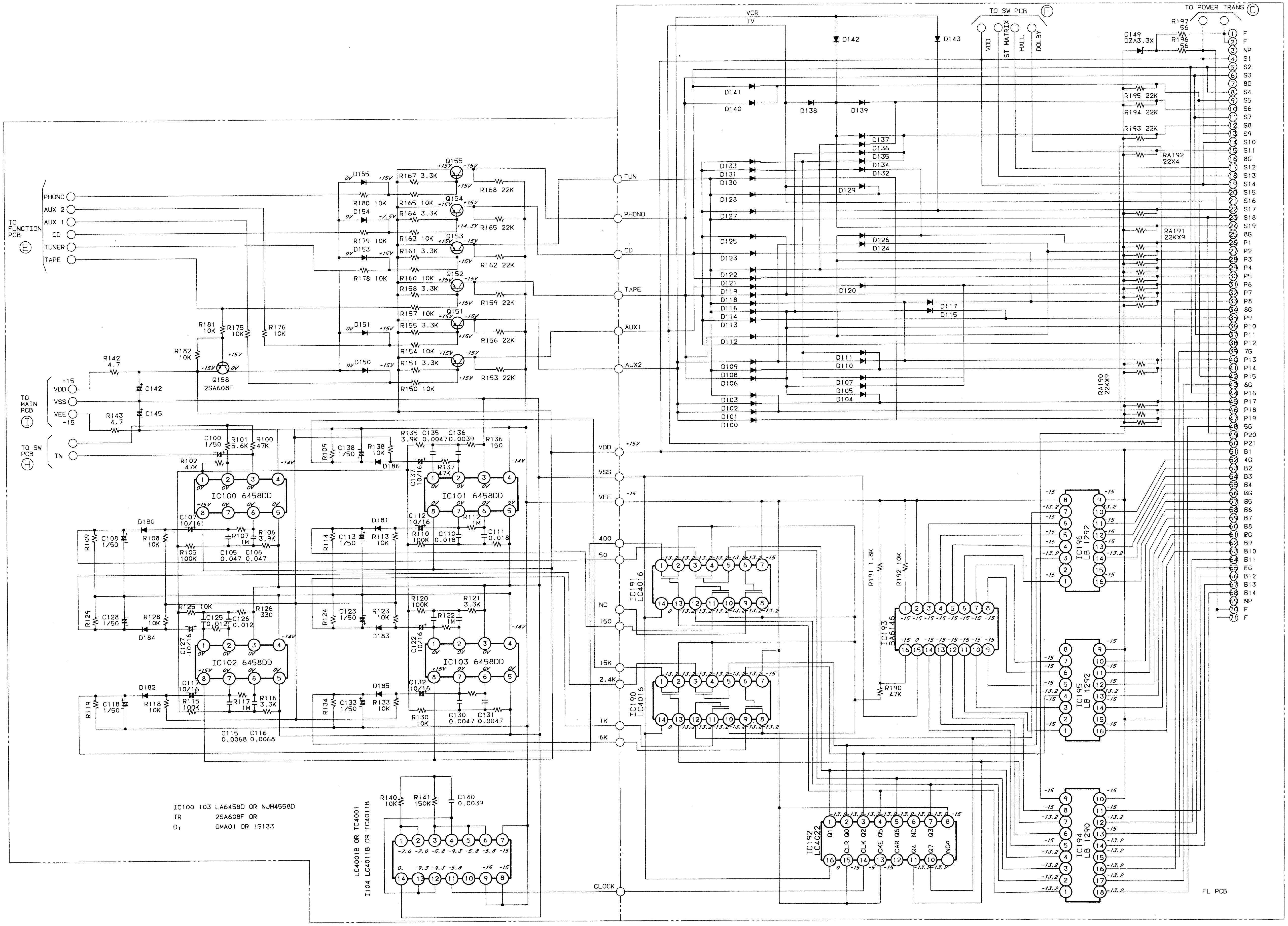
POWER SWITCH PCB ASSY

Ref. No.	Part No.	Description
74	141-4-290T-39100	P.C BOARD ASSY, POWER SWITCH
	141-2-381T-04202	BRACKET, FUSE
	4-237T-00100	TERMINAL BOARD
	141-2-382T-18900	TERMINAL
S4	⚠ 4-248T-30780	SWITCH, POWER
C900	⚠ 4-223T-12280	CAPACITOR

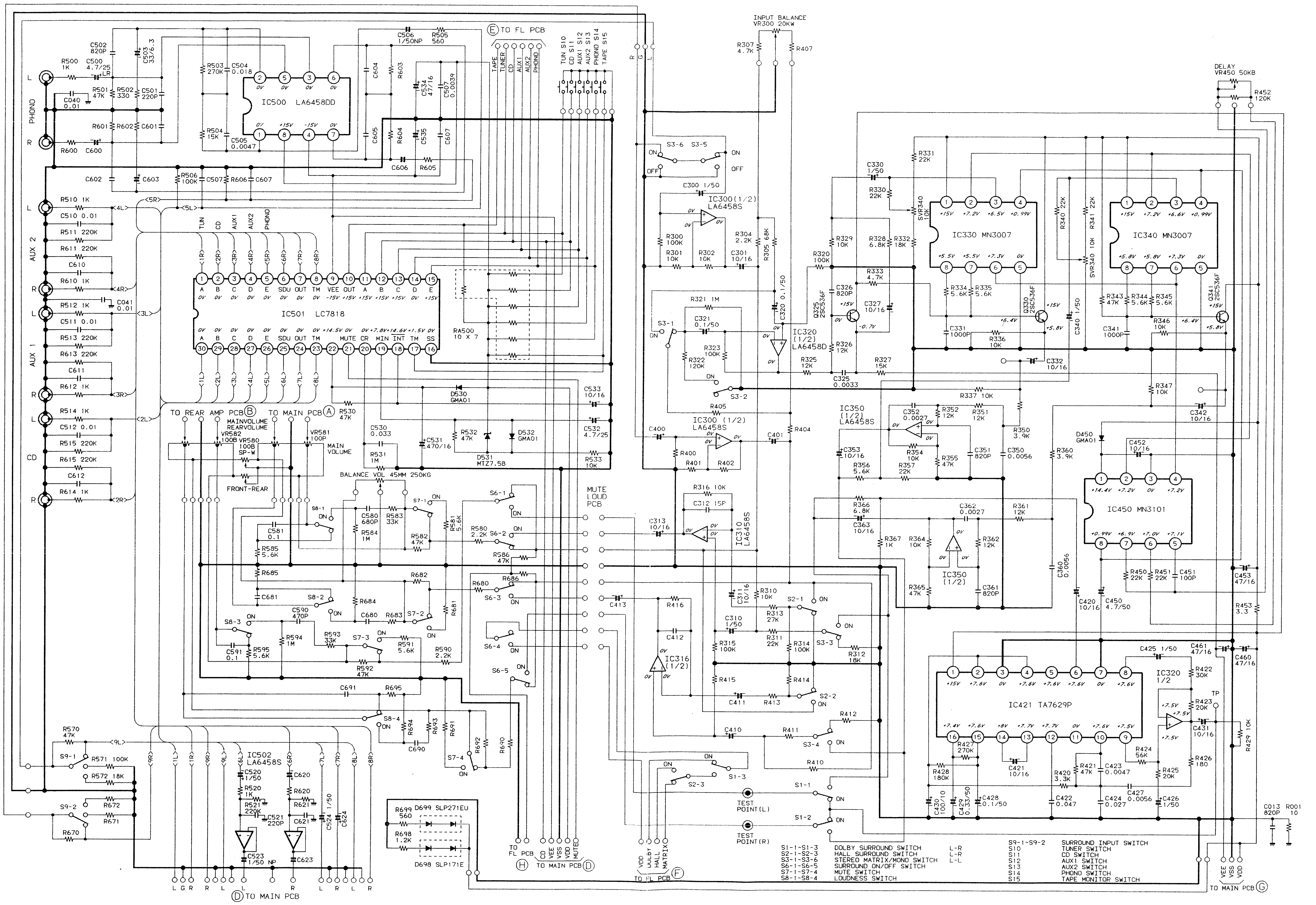
REGULATOR PCB ASSY

Ref. No.	Part No.	Description
77	141-4-290T-39600	P.C BOARD ASSY, REGULATOR
IC904	⚠ SIAN7812F++++	IC AN7812F SIP3
C915	CE+50105MR++F	ELECT 1MF 50V M R
C916	CE+16106MR++F	ELECT 10MF 16V M R

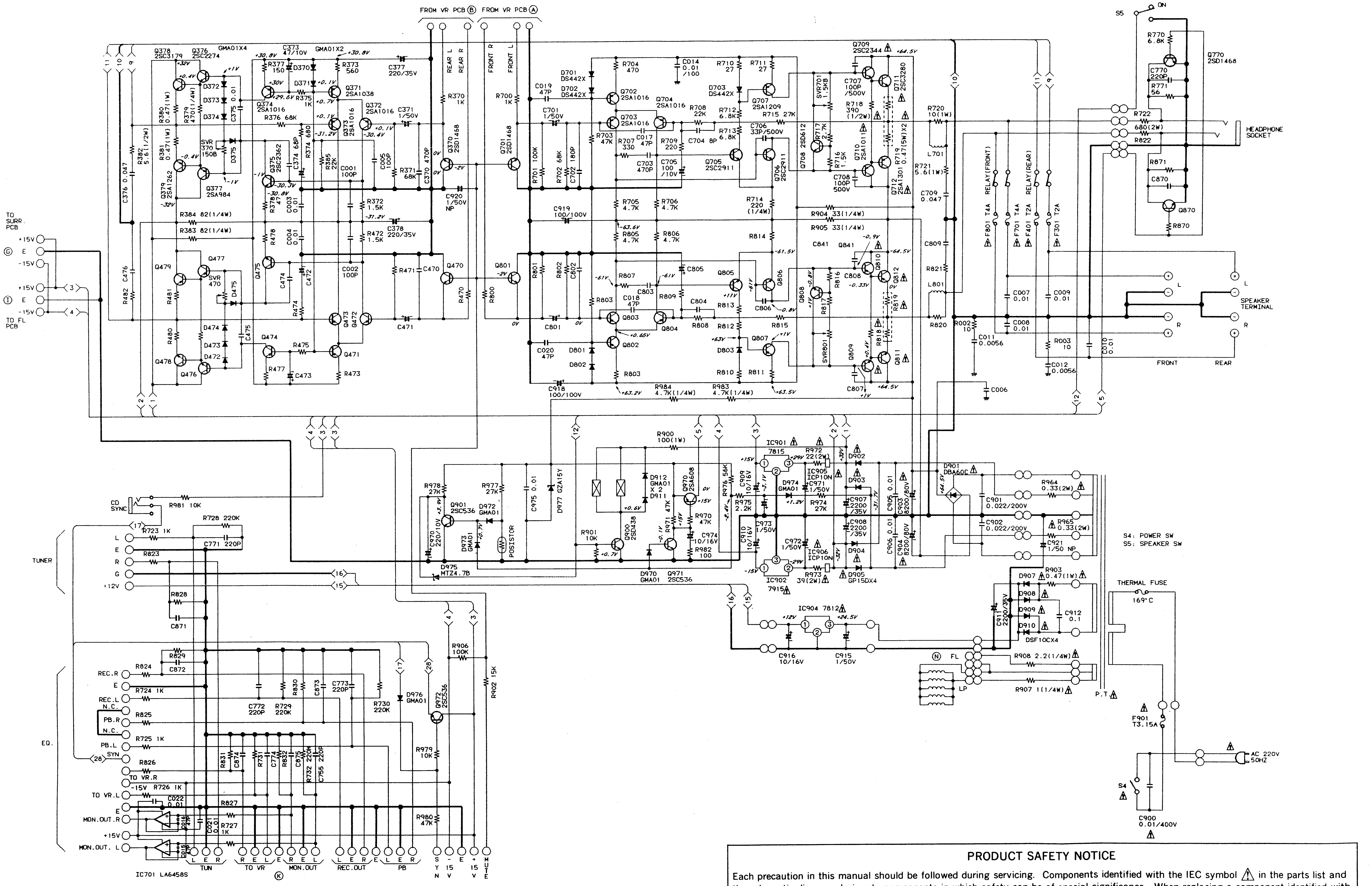
SCHEMATIC DIAGRAM (1)


TO FUNCTION PCB Ⓔ
PHONO
AUX 2
AUX 1
CD
TUNER
TAPE
TO MAIN PCB Ⓘ
+15
VDD
VSS
VEE
-15
TO SW PCB Ⓗ
IN
IC100 6458DD
IC101 6458DD
IC102 6458DD
IC103 6458DD
Q151
Q152
Q153
Q154
Q155
Q158 2SA608F
TUN
PHONO
CD
TAPE
AUX1
AUX2
VDD
VSS
VEE
400
50
NC
150
15K
2.4K
1K
6K
CLOCK
IC191 LC4016
IC190 LC4016
IC192 LC4022
IC193 BA6146
IC196 LB 1292
IC195 LB 1292
IC194 LB 1290
LC4001B OR TC4001
I104 LC4011B OR TC4011B
VCR
TV
TO SW PCB Ⓕ
VDD
ST MATRIX
HALL
DOLBY
TO POWER TRANS Ⓒ
D149 GZA3.3X
R197 56
R196 56
RA192 22X4
RA191 22KX9
RA190 22KX9
F
F
NP
S1
S2
S3
8G
S4
S5
S6
S7
S8
S9
S10
S11
8G
S12
S13
S14
S15
S16
S17
S18
S19
8G
P1
P2
P3
P4
P5
P6
P7
P8
8G
P9
P10
P11
P12
7G
P13
P14
P15
6G
P16
P17
P18
P19
5G
P20
P21
B1
4G
B2
B3
B4
3G
B5
B6
B7
B8
2G
B9
B10
B11
1G
B12
B13
B14
NP
F
F
FL PCB

IC100 103 LA6458D OR NJM4558D
TR 2SA608F OR
D: GMA01 OR 1S133


IC500 LA6458DD
IC501 LC7818
IC502 LA6458S
IC300 (1/2) LA6458S
IC310 LA6458S
IC316 (1/2)
IC320 (1/2) LA6458D
IC330 MN3007
IC340 MN3007
IC350 (1/2) LA6458S
IC450 MN3101
IC421 TA7629P
INPUT BALANCE VR300 20KW
DELAY VR450 50KB
PHONO
AUX 2
AUX 1
CD
TO FL PCB (E)
TO REAR AMP PCB (B)
TO MAIN PCB (A)
MAINVOLUME VR581
REARVOLUME VR582
VR580 SP-W
FRONT-REAR
BALANCE VOL 45MM 250KG
MUTE LOUD PCB
TEST POINT(L)
TEST POINT(R)
D699 SLP271EU
D698 SLP171E
TO FL PCB (H)
TO MAIN PCB (D)
TO FL PCB (F)
TO MAIN PCB (G)
S1-1~S1-3 DOLBY SURROUND SWITCH L-R
S2-1~S2-3 HALL SURROUND SWITCH L-R
S3-1~S3-6 STEREO MATRIX/MONO SWITCH L-L
S6-1~S6-5 SURROUND ON/OFF SWITCH
S7-1~S7-4 MUTE SWITCH
S8-1~S8-4 LOUDNESS SWITCH
S9-1~S9-2 SURROUND INPUT SWITCH
S10 TUNER SWITCH
S11 CD SWITCH
S12 AUX1 SWITCH
S13 AUX2 SWITCH
S14 PHONO SWITCH
S15 TAPE MONITOR SWITCH

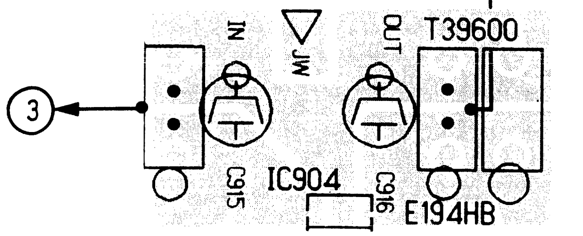
SCHEMATIC DIAGRAM (3)


FROM VR PCB Ⓑ
FROM VR PCB Ⓐ
REAR L
REAR R
FRONT R
FRONT L
TO SURR. PCB
TO FL PCB
+15V
E
-15V
Q378 2SC3179
Q376 2SC2274
Q379 2SA1262
Q377 2SA984
Q374 2SA1016
Q375 2SC2362
Q371 2SA1038
Q372 2SA1016
Q373 2SA1016
Q370 2SD1468
Q701 2SD1468
Q702 2SA1016
Q703 2SA1016
Q704 2SA1016
Q705 2SC2911
Q706 2SC2911
Q707 2SA1209
Q708 2SD612
Q709 2SC2344
Q710 2SA1011
Q711 2SC3280
Q712 2SA1301
Q770 2SD1468
D701 DS442X
D702 DS442X
D703 DS442X
L701
L801
RELAY(FRONT)
RELAY(REAR)
F801 T4A
F701 T4A
F401 T2A
F301 T2A
S5
ON
HEADPHONE SOCKET
SPEAKER TERMINAL
FRONT
REAR
L
R
IC901 7815
IC902 7915
IC904 7812
IC905 ICP10N
IC906 ICP10N
D901 DBA60C
D905 GP15DX4
DSF10CX4
Q900 2SD438
Q901 2SC536
Q970 2SA608
Q971 2SC536
Q972 2SC536
D975 MTZ4.7B
D977 GZA15Y
POSISTOR
CD SYNC
TUNER
EQ.
REC.R
REC.L
PB.R
PB.L
N.C.
SYN
TO VR.R
TO VR.L
MON.OUT.R
MON.OUT.L
IC701 LA6458S
TUN
TO VR
MON.OUT
REC.OUT
PB
Ⓚ
S4: POWER SW
S5: SPEAKER SW
THERMAL FUSE
169°C
P.T.
FL
LP
F901 T3.15A
S4
C900 0.01/400V
AC 220V 50HZ

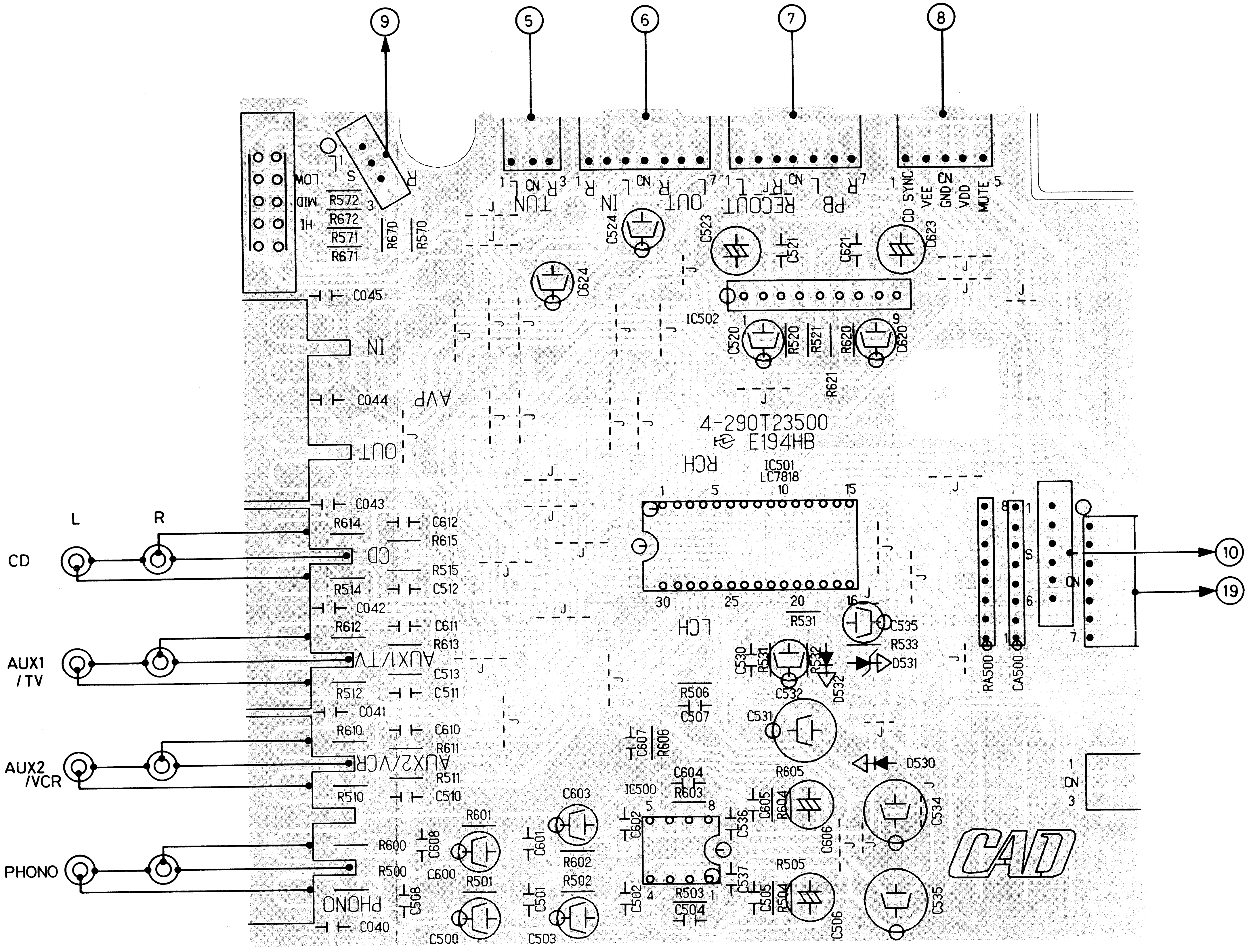
PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual.

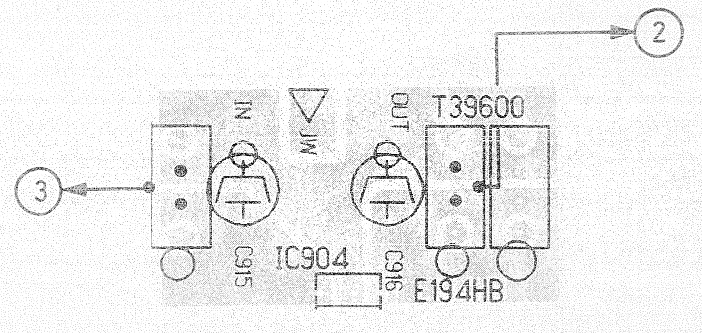
Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.


3
2
IN
OUT
JW
T39600
C915
IC904
C916
E194HB

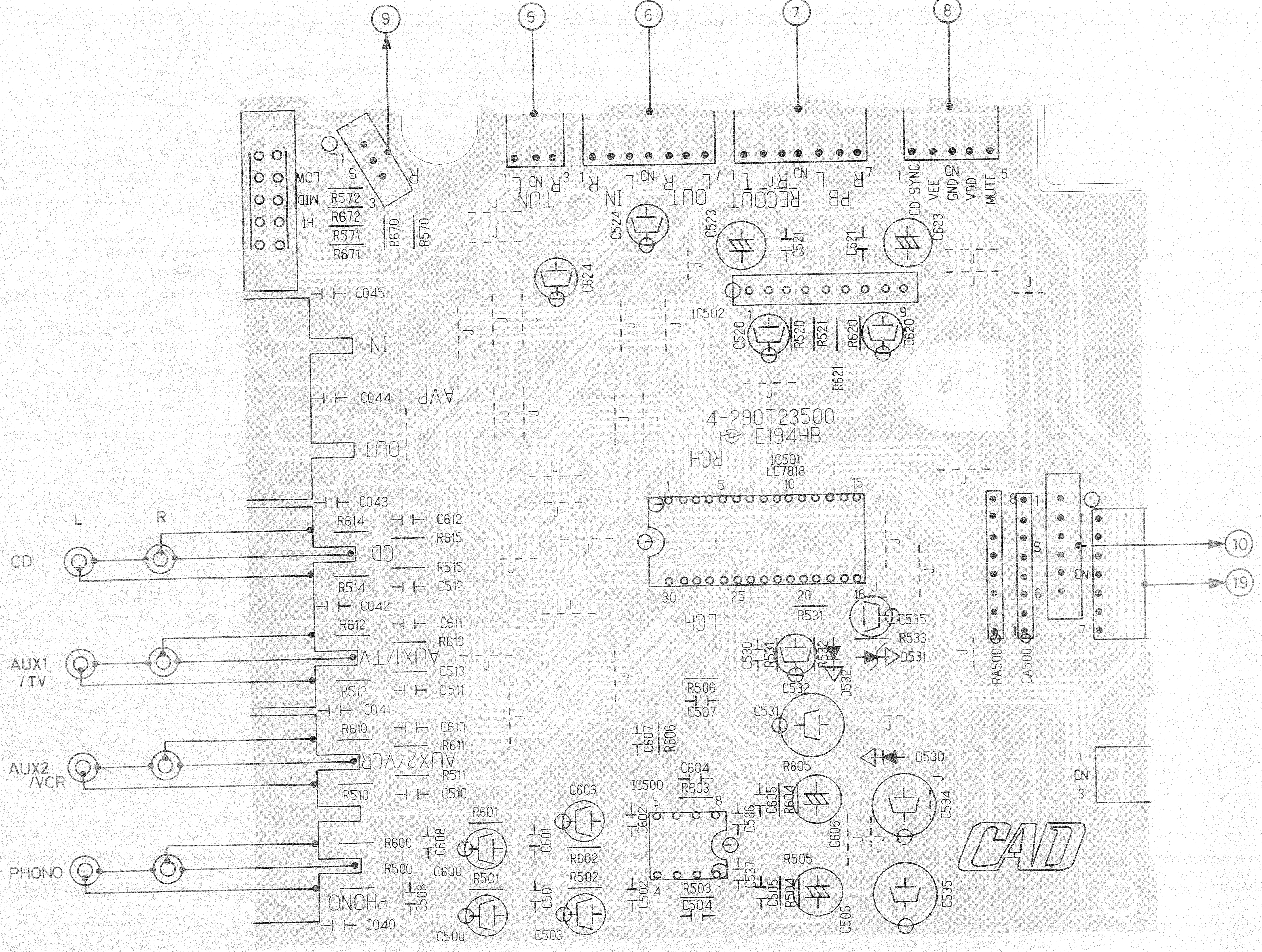
REGULATOR PCB


9
5
6
7
8
L
R
CD
AUX1
/TV
AUX2
/VCR
PHONO
10
19
LOW
MID
HI
S
R572
R672
R571
R671
R670
R570
TUN
IN
OUT
RECOUT
PB
CD SYNC
VEE
GND
VDD
MUTE
C524
C523
C521
C621
C623
C624
C045
C044
C043
C042
C041
C040
AVP
IC502
C520
R520
R521
R620
C620
R621
4-290T23500
E194HB
RCH
IC501
LC7818
LCH
R614
C612
R615
R515
R514
C512
R612
C611
R613
AUX1/TV
C513
R512
C511
R610
C610
R611
AUX2/VCR
R511
R510
C510
R600
R500
C608
C508
C600
C500
R601
R501
C601
C501
C603
C503
R602
R502
IC500
C602
C502
C604
R603
R503
C504
C536
C537
C605
C505
R604
R504
R605
R505
C606
C506
C534
C535
D530
C531
C607
R606
R506
C507
C530
R531
C532
R532
D532
R533
D531
C535
RA500
CA500
CN
PHONO
CAD

FUNCTION PCB

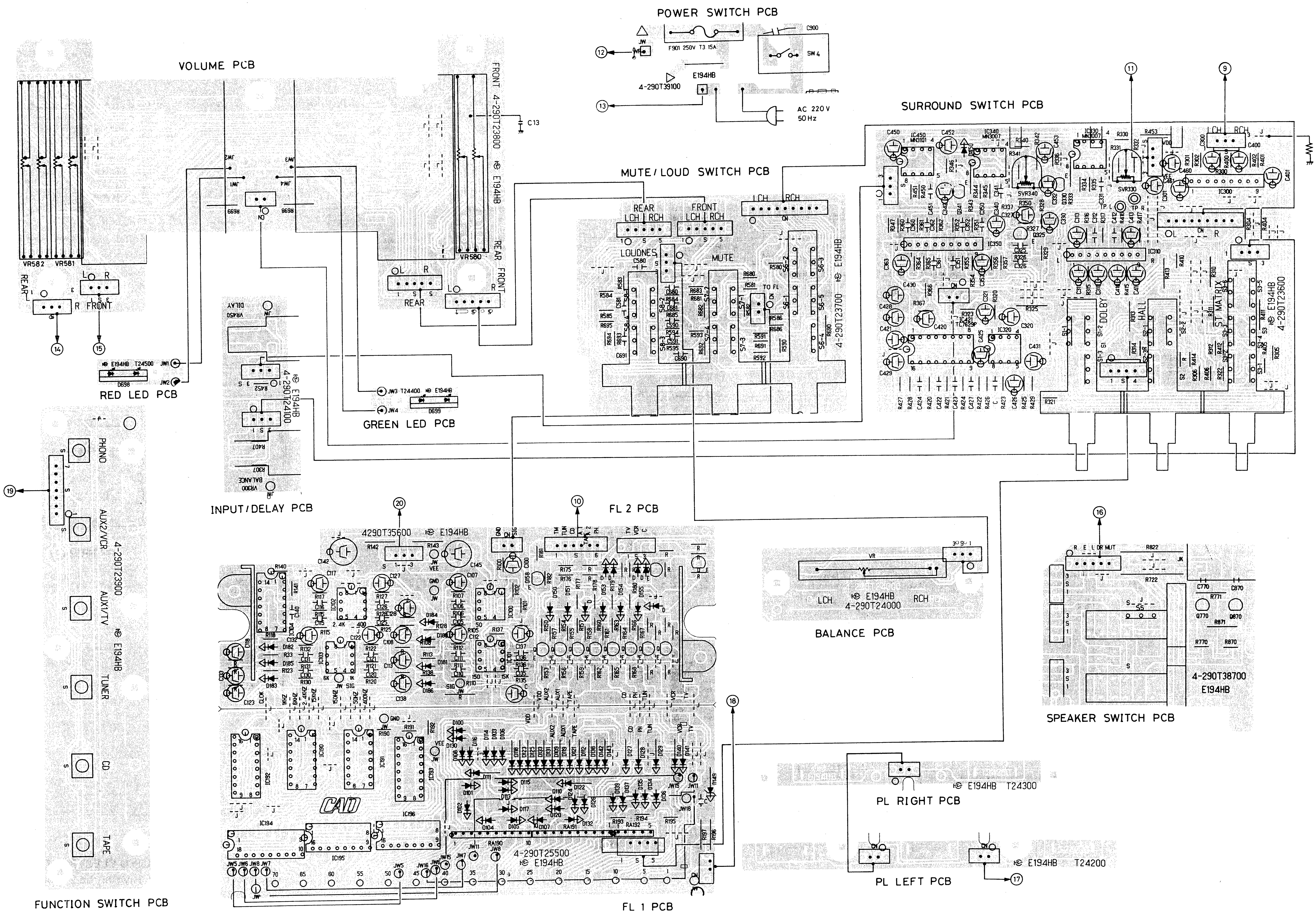

③
②
IN
JW
OUT
T39600
C915
IC904
C916
E194HB

REGULATOR PCB


⑨
⑤
⑥
⑦
⑧
⑩
⑲
L
R
CD
AUX1 / TV
AUX2 /VCR
PHONO
LOW
MID
HI
S
L
R
R572
R672
R571
R671
R670
R570
TUN
IN
OUT
RECOUT
PB
CN
CD SYNC
VEE
GND
VDD
MUTE
C524
C523
C521
C621
C623
C624
IC502
C520
R520
R521
R620
C620
R621
C045
C044
AVP
OUT
NI
4-290T23500
E194HB
RCH
IC501
LC7818
LCH
C043
R614
C612
R615
R515
R514
C512
C042
R612
C611
R613
R513
C513
R512
C511
C041
R610
C610
R611
R511
C510
R510
R600
R500
C608
C508
C600
C040
R601
R501
C500
C601
C501
C603
R602
R502
C503
IC500
C602
C502
C604
R603
R503
C504
R506
C507
C607
R606
R531
C535
R533
D531
C530
R532
D532
C532
C531
R605
D530
C536
C605
R604
C606
C534
C537
C505
R504
R505
C506
C535
RA500
CA500
CN
CAD

FUNCTION PCB

WIRING DIAGRAM (2)


POWER SWITCH PCB
F901 250V T3.15A
C900
SW 4
E194HB
4-290T39100
AC 220V
50Hz
VOLUME PCB
FRONT 4-290T23800 E194HB
C13
REAR FRONT
VR582
VR581
VR580
REAR
FRONT
SURROUND SWITCH PCB
MUTE/LOUD SWITCH PCB
REAR
FRONT
LCH RCH
LOUDNES
MUTE
4-290T23700 E194HB
E194HB 4-290T23600
DOLBY
HALL
ST MATRIX
RED LED PCB
E194HB T24500
D698
JW1
JW2
INPUT/DELAY PCB
DELAY VR450
4-290T24100 E194HB
BALANCE VR300
GREEN LED PCB
JW3 T24400 E194HB
JW4
D699
FUNCTION SWITCH PCB
PHONO
AUX2/VCR
AUX1/TV
TUNER
CD
TAPE
4-290T23900 E194HB
FL 2 PCB
4290T35600 E194HB
BALANCE PCB
LCH E194HB 4-290T24000 RCH
SPEAKER SWITCH PCB
4-290T38700
E194HB
PL RIGHT PCB
E194HB T24300
PL LEFT PCB
E194HB T24200
FL 1 PCB
4-290T25500
E194HB
CAD
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⑩
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⑫
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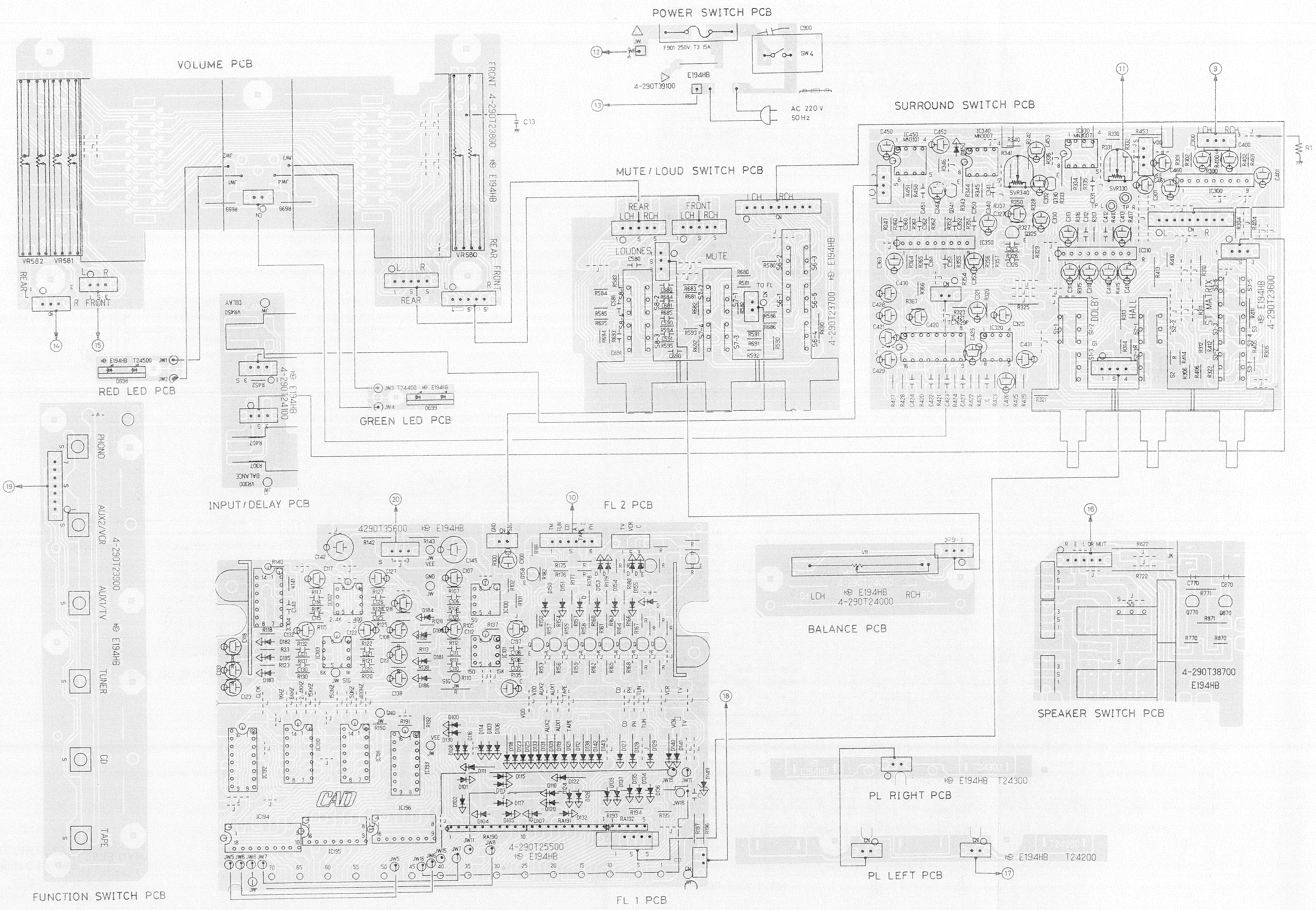
⑱
⑲
⑳

WIRING DIAGRAM (2)


POWER SWITCH PCB
F901 250V T3.15A
C900
SW 4
E194HB
4-290T39100
AC 220 V
50 Hz
VOLUME PCB
FRONT 4-290T23800
E194HB
VR582
VR581
VR580
REAR
FRONT
C13
RED LED PCB
E194HB T24500
D698
GREEN LED PCB
T24400 E194HB
D699
INPUT/DELAY PCB
4-290T24100
E194HB
DILAY
BALANCE
MUTE/LOUD SWITCH PCB
REAR
FRONT
LCH RCH
LOUDNES
MUTE
TO FL
4-290T23700
E194HB
SURROUND SWITCH PCB
DOLBY
HALL
ST MATRIX
4-290T23600
E194HB
FUNCTION SWITCH PCB
PHONO
AUX2/VCR
AUX1/TV
TUNER
CD
TAPE
4-290T23900
E194HB
FL 2 PCB
4290T35600
E194HB
BALANCE PCB
LCH
RCH
E194HB
4-290T24000
SPEAKER SWITCH PCB
4-290T38700
E194HB
FL 1 PCB
4-290T25500
E194HB
PL RIGHT PCB
E194HB T24300
PL LEFT PCB
E194HB T24200
⑨
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⑮
⑯
⑰
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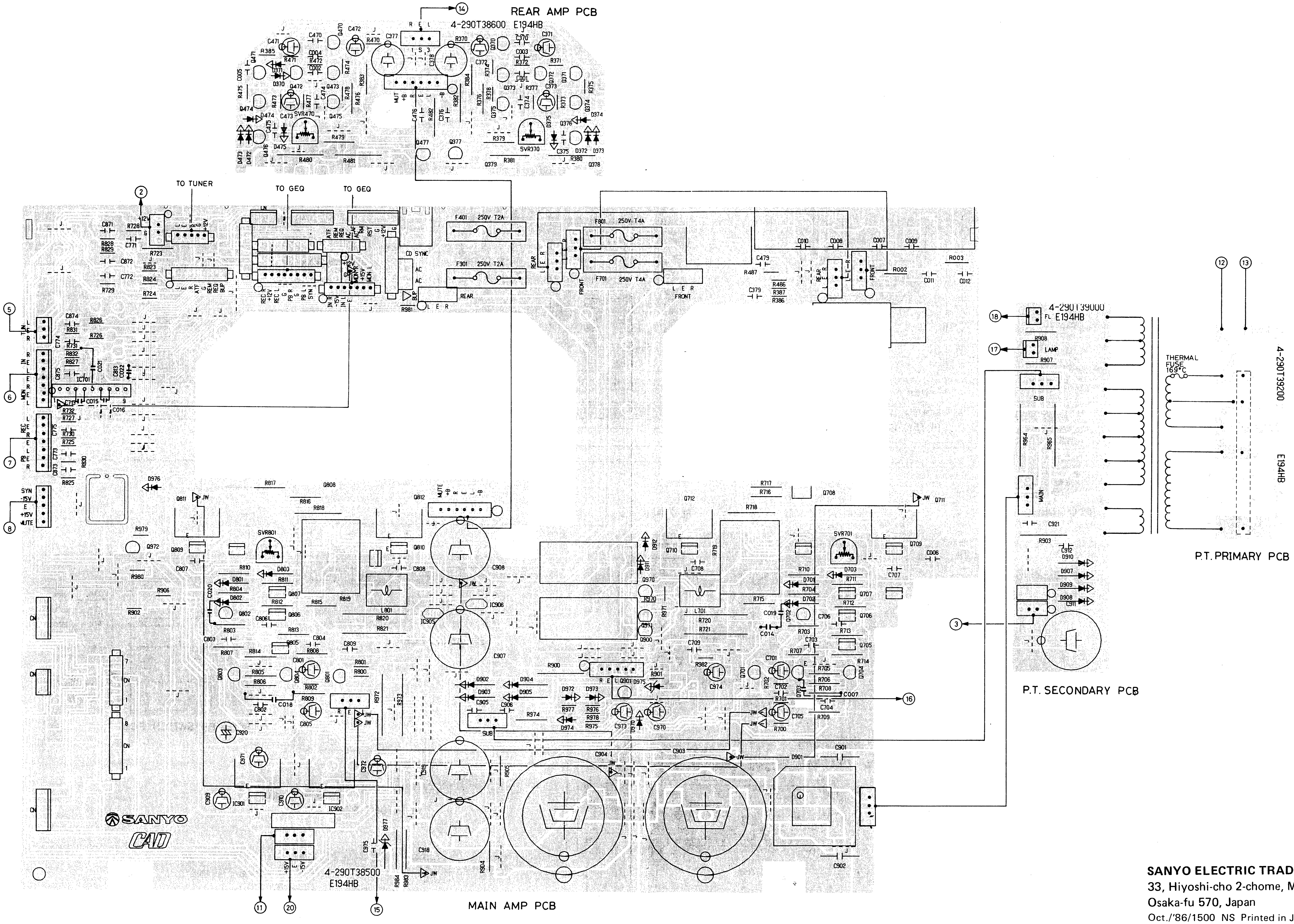
⑲
⑳

WIRING DIAGRAM (3)


REAR AMP PCB
4-290T38600 E194HB
TO TUNER
TO GEQ
TO GEQ
F401 250V T2A
F301 250V T2A
F801 250V T4A
F701 250V T4A
CD SYNC
FRONT
REAR
4-290T39000 E194HB
LAMP
THERMAL FUSE 169°C
4-290T39200 E194HB
P.T. PRIMARY PCB
P.T. SECONDARY PCB
SUB
MAIN
SANYO
CAD
4-290T38500 E194HB
MAIN AMP PCB
+15V
-15V
SYN
MUTE
REC
PB
MON
IN
TAPE
⑭
②
⑤
⑥
⑦
⑧
⑫
⑬
⑱
⑰
③
⑯
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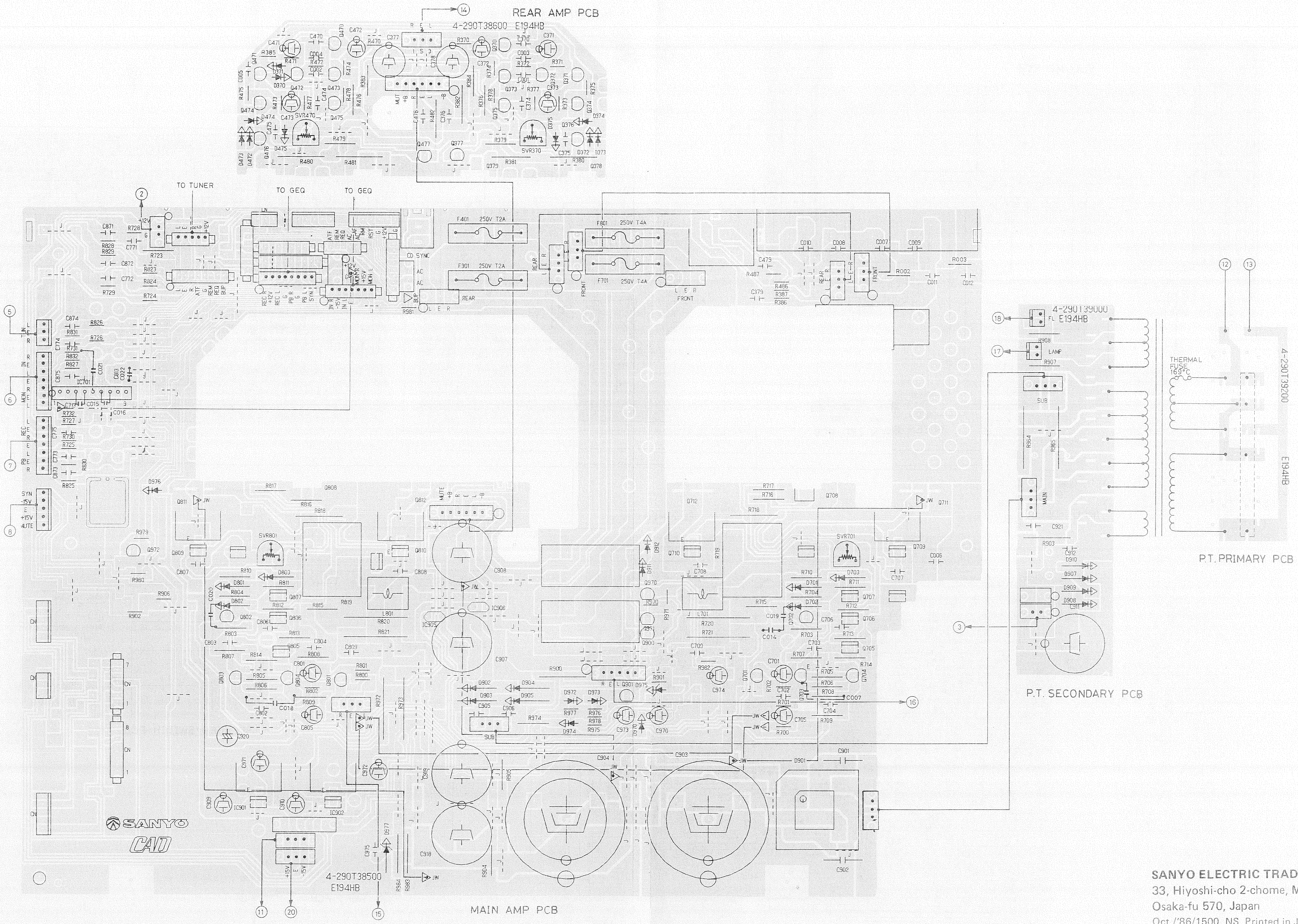
⑳
⑮

SANYO ELECTRIC TRADING CO., LTD.
33, Hiyoshi-cho 2-chome, Moriguchishi,
Osaka-fu 570, Japan
Oct./'86/1500 NS Printed in Japan

WIRING DIAGRAM (3)


REAR AMP PCB
4-290T38600 E194HB
TO TUNER
TO GEQ
TO GEQ
F401 250V T2A
F301 250V T2A
F801 250V T4A
F701 250V T4A
FRONT
REAR
CD SYNC
4-290T39000 E194HB
LAMP
SUB
MAIN
THERMAL FUSE 165°C
4-290T39200 E194HB
P.T. PRIMARY PCB
P.T. SECONDARY PCB
SVR801
SVR701
SVR470
SVR370
IC701
IC901
IC902
SANYO
CAD
4-290T38500 E194HB
MAIN AMP PCB
+15V
-15V
SYN
MUTE
②
③
⑤
⑥
⑦
⑧
⑪
⑫
⑬
⑭
⑮
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⑰
⑱
⑳

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